

Volume

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R0385

FIELD NOTES

BOOK A-385

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FIELD NOTES

OF THE SURVEY OF THE

Of the Meridian,

In the State of

EXECUTED BY

In the capacity of U. S. Surveyor....., under instructions dated....., 191.....
ssued by the United States Surveyor General to govern surveys included in
Group No., which were approved by the Commissioner of the General Land
Office, , 191....., pursuant to authority contained in the Act of
ongress dated , 191.....

Survey commenced , 191.....

Survey completed , 191.....

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Survey commenced _____, 191_____.

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Benton Co.

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FIELD NOTES

OF THE SURVEY OF THE

Of the _____ Meridian,

in the State of _____

EXECUTED BY

In the capacity of U.S. Surveyor_____, under instructions dated_____, 191_____,

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Survey commenced_____, 191_____.
Survey completed_____, 191_____.

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BOOK A-385

FIELD NOTES

OF THE SURVEY OF THE

RETRACEMENT

SIXTH STANDARD PARALLEL SOUTH

through

Range 7 West

of the Salt Lake River and Meridian,

State of Utah.

AS SURVEYED BY

John H. Stewart and Quincy Stewart, U.S. Topographic Surveyor,

Under his direction No. 1, dated August 6, 1910.

Survey commenced November 9, 1910.

Survey completed November 11, 1910.

Scale

1 mile = 1.333 miles

NAMES AND DUTIES OF ASSISTANTS.

R. Bert Carter	Chairman
Verne O. Nelson	Chairman
Isaac R. Hayes.	Moundman
Ruben W. Riley	Axman

For Final Affidavits see Notes of Resurvey 6th Standard Parallel

south through Range 8 West book "P"

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INDEX DIAGRAM.

Township 51 South, Range 7 West

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PRELIMINARY OATHS OF ASSISTANTS.

WE, R. Bert Carter

and Verne O. Nelson

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Retracement 6th Standard Parallel South, R. 7 W. and Resurvey 6th Standard Parallel South, through Range 8 W. S.L.B. & M.Utah.

R. Bert Carter, Chainman.*Verne O. Nelson*, Chainman.

Subscribed and sworn to before me this 9th
day of November 1910. }

*John R. Stewart*
Instrumentman G.I.O.

WE, I Isaac H. Hayes

XXIX

do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given us, to the best of my skill and ability, in the survey of Retracement 6th Standard Par.S.; through Range 7 W. and Resurvey 6th Standard Par. South, through Range 8 W. S.L.B. & M.Utah.

Isaac H. Hayes, Moundman.

, Moundman.

Subscribed and sworn to before me this 9th
day of November 1910. }



Instrumentman G.I.O.

WE, I, Ruben W. Riley

XXIX

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of my skill and ability, in the survey of Retracement 6th Standard Par. South, through R. 7 W., and Resurvey 6th Standard Par. South, through Range 8 West, S.L.B. & M.Utah.

Ruben W. Riley, Chainman.

, Axman.

Subscribed and sworn to before me this 8th
day of November 1910. }

*John R. Stewart*
Instrumentman G.I.O.

I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

Flagman.

Subscribed and sworn to before me this
day of , 190 }



Retracement 6th Standard Parallel South, through R.7 W.

Survey commenced ^{Nov} 9, 1910, and executed with a W. and L.E. Gurley Explorer's transit No. 957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs. The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910. I examine the adjustments of the instrument, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during the day, with those made during p.m. and a.m. hours with a meridian established by Polaris observation; I proceed as follows:

At the standard cor. of Tp., 30 S., Rs. 6 and 7 W., latitude $39^{\circ}09'30''$ N., longitude $112^{\circ}33'13''$ W., I set off $38^{\circ}09\frac{1}{2}'$ N., on the lat. arc; $16^{\circ}47'$ S., on the decl. arc; and at 3 h 44 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

November 9, 1910.

November 10, 1910: At 4 h 10 m a.m., l.m.t., I observe Polaris at western elongation in accordance with the Manual and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N., of the cor.

At 8 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}29.4'$ to the east and mark a point in the meridian thus determined, by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.4 ins. east of the meridian determined by the solar.

Retracement 6th Standard Parallel S.-through Range 7 W.

Chains At 8 h 44 m a.m., l.m.t., I set off $38^{\circ}09\frac{1}{2}'N.$, on the lat. arc; $17^{\circ}00'S.$, on the decl. arc; and mark the meridian determined by the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.37 ins. east of the meridian determined by Polaris observation. The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0'21''$ west and $0'19''$ east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instruments are satisfactory. The magnetic bearing of the meridian at 8 h 50 m a.m., l.m.t., is N. $16^{\circ}02'W.$, the angle thus determined gives the mag. decl. $16^{\circ}02'E.$

For reasons already explained I commence at the cor. of Tps. 30 S., Rs. 6 and 7 W., heretofore described and proceed to retrace the 6th Standard Parallel South through Range 7 W as follows:

W, on a retracement line along south bdy. sec. 36.

Over mountainous land; through scattering cedar and pinon pine timber and dense sage brush.

Desc.

9.00 Leave timber, bears N. and S.

17.00 Wash, 60 lks. wide, 3 ft. deep, in bottom of broad hollow, 100 ft. below cor., course SW.

Thence in bottom of hollow,

25.00 Enter heavy cedar and pinon pine timber, bears NE and SW
Leave bottom of hollow, bears NE and SW.

Asc.

26.45 Fall 13 lks. S. of the closing cor. of Tps. 31 S., R. 6 and 7 W., heretofore described.

40.03 Fall 19 lks. South of the standard $\frac{1}{4}$ sec. cor., on S. bdy. sec. 36, which is a gray sandstone, 12x13x10 ins., above ground, firmly set, and mkd. and witnessed as described by

Retracement 6th Standard Parallel South, through Range 7 W.

Chains

the surveyor general.

I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for Standard 1 sec. cor., mkd. on brass cap $\frac{1}{4}$ S 36 in N half ; from which

A pinon pine, 6 ins. dia., bears N.7°E., 36 lks.

dist..mkd. $\frac{1}{4}$ S 36 B.T.

43.00 Top of ridge, 200 ft. above hollow, bears N. and S.

Desc.

50.00 Bottom of hollow, 30 ft. below ridge, course SE.

Asc.

53.25 Top of ridge, 30 ft. above hollow, bears N. and S.

Desc.

62.25 Bottom of hollow, 50 ft. below ridge, course SE.

Asc.

79.00 Top of ridge, 50 ft. above hollow, bears N. and S.

Desc.

80.13 Fall 19 lks. South of the standard cor. of secs. 35 and 36, which is a gray sandstone 11x12x6 ins., above ground, well set and mkd. and witnessed as described by the surveyor general.

I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for standard cor. of secs. 35 and 36, mkd. on brass cap T 30 S S 35 in NW.

R 7 W S 36 in NE.; quadrants; from which

A pinon pine, 5 ins. dia., bears N.22°E., 48 lks.

dist..mkd.T 30 S R 7 W S 36 B.T.

A pinon, pine, 5 ins. dia., bears N.29°15'W., 195 lks

dist..mkd.T 30 S R 7 W S 35 B.T.

The course of the east half of this mile is therefore

Retracement 6ht Standard Parallel S.; through Range 7 W.

Chains	<p>N.89°44'W., 40.03 chs.; and the west half is West, 40.10 chs.</p> <p>Land, rolling mountains.</p> <p>Soil, sandy loam from 1 ft. to 3 ft. deep, subsoil, clay and gravel.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage brush.</p> <p>A very little grass.</p> <p>Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.13 chs.</p> <hr/>
	<p>West, on a retrace ment line on south bdy. sec. 35.</p> <p>Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.</p>
	<p>Desc.</p>
7.50	<p>Bottom of hollow, 50 ft below cor., course SW.</p>
	<p>Asc.</p>
15.50	<p>Top of ridge, 75 ft. above hollow, bears N.30°E. and S.30°W.</p>
	<p>Desc.</p>
25.00	<p>Foot of descent, 100 ft. below ridge, bears N.30°E. and S.30°W.</p>
	<p>Enter nearly level valley.</p>
	<p>Leave heavy and enter scattering timber, bears N.30°E. and S.30°W.</p>
	<p>Enter dense sage brush, bears N.30°E. and S.30°W.</p>
31.40	<p>Road from Parowan to Beaver, bears N.30°E. and S.30°W.</p>
37.25	<p>Telephone line from Beaver to Parowan, bears N.30°E. and S.30°W.</p>
40.29	<p>Fall 23 lks. S. of the Standard 1/4 sec. cor. on S side sec. 35, which is a sandstone, 10x12x8 ins., above ground, firmly set and mkd. and witnessed as described by the surveyor general.</p>
	<p>Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the</p>

Retracement 6th Standard Parallel South, through Range 7 West.

Chains	ground, for Standard $\frac{1}{4}$ Sec.cor., mkd.on brass cap $\frac{1}{4}$ S 35. in N half.; from which A cedar tree, 6 ins.dia., bears N.4°W., 176 lks. dist..mkd. $\frac{1}{4}$ S 35 B T.
57.30	Leave valley, bears N.and S. Asa.
80.43	Fall 27 lks.S.of the standard cor.of secs.34 and 35, which is a gray sandstone, 11x8x6 ins., above ground, well set, and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows: Set an iron post, 3 ft.long, 3 ins.in dia., 20 ins.in the ground, on rock, and surrounded by mound of earth and stone, for standard cor of secs.34 and 35., mkd.on brass cap T 30 S S 34 in NW.; and R 7 W S 35 in NE.; quadrants; from which A cedar, 5 ins.dia., bears N.53°45'E., 32 lks. dist..mkd.T 30 S R 7 W S 35 B T. A pinon pine, 7 ins.dia., bears N.70°30'W., 37 lks. dist..mkd.T 30 S R 7 W S 34 B T. The course of the east half of this mile is therefore N.89°40'W., 40.29.chs.the west half is N.89°56'W., 40.14 chs. Land, mountainous and valley.. Soil, sandy loam; about 2 ft.deep 2nd rate.Subsoil, clay and gravel. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.43 chs. November 10, 1910:At this cor.I set off 17°03'S., on the

Retracement 6th Standard Parallel South, through R.7 W.

Chains	decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°09'N., which is the proper lat. nearly.
	West, on a retracement line on S.side sec.34 .
	Over mountainous land; through heavy cedar and pinon pine timber.
	Asc.
5.65	Top of spur, 60 ft. above cor. bears N.35°W. and S.35°E.
	Desc.
16.30	Bottom of hollow, 55 ft. below spur, course S.40°E.
	Asc.
21.80	Top of spur, 100 ft. above hollow, bears NW and SE.
	Desc.
24.85	Bottom of swale, 70 ft. below spur, course S.25°E.
	Asc.
35.70	Top of spur, 150 ft. above swale, bears N.50°E. and S.30°W.
	Desc.
40.05	Fall 16 lks.S. of the Standard $\frac{1}{4}$ sec.cor.on S.side, of sec. 34, which is a gray sandstone, 9x12x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. I destroy the old cor. and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on rock bottom, and surrounded by mound of earth and stone, for Standard $\frac{1}{4}$ Sec.cor., mkd. on brass cap $\frac{1}{4}$ S 34 in N half; from which
	A pinon pine, 8 ins. dia., bears N.55°30'E., 34 lks. dist..mkd. $\frac{1}{4}$ S 34 B T.
43.20	Bottom of swale, 60 ft. below spur, course S.20°E.
	Asc.
46.85	Top of spur, 120 ft. above swale, bears N. and S.
	Desc.

Retracement 6th Standard Par. South, through Range 7 W. -Contd.

Chains

61.60 Bottom of hollow, 150 ft. below spur, course SE.

Asc.

79.33 Fall 50 lks. South of the Standard cor. of secs. 33. and 34., which is a red sandstone, 10x10x16 ins above ground, firmly set and mkd. and witnessed as described by the surveyor general.

I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standrad cor. of secs. 33. and 34., mkd. on brass cap

T 30 S S 33 in NW.

R 7 W S 34 in NE; quadrants; from which

A cedar, 19 ins. bears N.50°E., 39 lks.

dist..mkd.T 30 S R 7 W S 34 B T.

A cedar, 6 ins. dia., bears N.52°W., 8 lks.

dist..mkd.T 30 S R 7 W S 33 B T.

The course of the East half of this mile is therefore N.89°46'W., 40.03 chs. and the west half is N.89°48'W., 39.30 chs.

Land, rough and steep mountains .

Soil, sandy and clay loam from 1 to 3 ft. deep, 2nd rate.

Subsoil, clay and gravel.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.33 chs.

November 10, 1910.

November 11, 1910: At 8 h 44 m.a.m., I.m.t., I set off 38° 09'N., on the lat.arc; 17°17'S., on the decl.arc; and deter-

Retracement 6th Standard Parallel South-through Range 7 W.

- Chains mine a meridian with the solar, at the standard cor. of secs. 33 and 34.
 Thence I run
 West, on a retracement line along S.side sec.33 .
 Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
 Asc.along south slope of ridge over large sandstone boulders.
- 40.48 Fall 47 lks.S.of the standard $\frac{1}{4}$ sec.cor.on S.side of sec.33, which is a sandstone, 9x12x8 ins.above ground, firmly set, and mkd.and witnessed as described by the surveyor general.
 I destroy the old cor.and re-establish it in the same place as follows:
 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor.mkd.on brass cap $\frac{1}{2}$ S 33 in N half; from which
 A cedar, 10 ins.dia., bears N.1°E., 37 lks.
 dist..mkd. $\frac{1}{2}$ S 33 E T.
- 58.80 Top of ridge, 200 ft.above sec.cor., bears N.and S.
 Desc.
- 67.85 Swale, 75 ft.below ridge, course S.10°E.
 Asc.
- 76.55 Top of ridge, 220 ft.above swale,bears N.and S.
 Desc.
- 80.24 Fall 40 lks.South of old standard cor.of secs.32 and 33, which is a sandstone, 10x12x8 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general.
 I destroy the old cor.and re-establish it in the same place as follows:
 Set an iron post, 3 ft.long, 3 ins.in dia., 20 ins.in the ground, on solid rock, and surrounded by mound of earth and stone,for standard cor.of secs.32 and 33 mkd.on brass cap

Retracement 6th Standard Parallel South, through R. 7 W.-Contd.

Chains	<p>T 30 S S 32 in NW.; and R 7 W S 33 in NE. quadrants; from which A cedar 10 ins. dia. bears N.81°E. 11 lks. dist., mkd. T.30 S R 7 W S 33 B T.</p> <p>A pinon pine 9 ins. dia. bears N.72°W. 20 lks. dist., mkd. T 30 S R 7 W 32 B T.</p> <p>The course of the east half of this mile is therefore N.89°20'W., 40.48 chs.; the west half is S.89°54'W., 39.76 chs.</p> <p>Land, rough and broken ridges and hollows covered with large sandstone boulders.</p> <p>Soil, sandy loam about 1 ft. deep.</p> <p>Subsoil, sandstone and gravel.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sagebrush.</p> <p>A very little grass.</p> <p>Mountainous or heavily timbered land, 80.24 chs.</p>
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	West, on a retracement line along S. side of sec. 32.
	Over mountainous land; through heavy cedar and pinon pine timber and scattering sage and oak brush. Desc.
20.00	Bottom of swale, 50 ft. below cor., course S.20°E. Asc.
32.85	Top of rocky ridge, 300 ft. above swale, bears N.20°E. and S.20°W. Desc. abruptly.
39.90	Fall 89 lks. S. of the Standard $\frac{1}{4}$ sec. cor. on S. side of sec. 32, which is a gray sandstone, 8x14x5 ins. above ground, firmly set, and marked and witnessed as de- scribed by the surveyor general.
	I destroy the old cor. and re-establish it in the same place as follows:
	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground, on rock, and surrounded by mound of earth and stone, for Standard $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 32 in N. half; from which

Retracement 6th Standard Parallel South, through R. 7 W.-Contd.

Chains	A mahogany 12 ins. in dia. bears N.3°E. 35 lks. dist., mkd., $\frac{1}{4}$ S 32 B T.
45.15	Leave heavy timber and enter scattering timber, bears N. and S.
77.00	Enter heavy timber, bears N. and S.
80.96	Fall 33 lks. N. of the old cor. of secs. 31 and 32, which is a sandstone, 10x10x7 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general. I destroy the old cor. and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 3 ins. in dia., 18 ins. in the ground, on rock, and surrounded by mound of earth and stone, for standard cor. of secs. 31 and 32, mkd. on brass cap T 30 S S 31 in NW. R 7 W S 32 in NE. quadrants; from which
	A cedar 12 ins. dia. bears N.58°30'E. 91 lks. dist., mkd. T 30 S R 7 W S 32 B T.
	A pinon pine 14 ins. dia. bears N.53°W. 20 lks. dist., mkd. T 30 S R 7 W S 31 B T.
	The course of the east half of this mile is therefore N.88°43'W., 39.91 chs.; the west half is S.88°18'W., 41.08 chs.
	Land, high, steep ridges and hollows and rocky.
	Soil, sandy loam from 6 ins. to 3 ft. deep, rich and soft.
	Subsoil, clay and gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sagebrush and oak brush and mahogany.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.99 chs.

Retracement of 6th Standard Parallel South, through Range 7 W.

Chains November 11, 1910: At this cor. I set off 17°20'S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 58°09'N., which is the proper lat. nearly.

West, on a retracement line along south side of sec. 31, Over mountainous land; through heavy cedar and piñon pine timber and scattering sage brush.

Desc.

7.80 Bottom swale, 40 ft. below cor., course S.

Asc.

15.60 Top of ridge, 200 ft. above swale, bears NE and SW.

Desc.

42.71 Fall 160 lbs. N. of the Standard $\frac{1}{4}$ sec. cor., on S. side of sec. 31, which is a sandstone, 6x10x9 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

I destroyed the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 31 in II half from which:

A cedar, 5 ins. dia., bears N.3°E., 123 lbs.

dist.. mkd. $\frac{1}{4}$ S 31 B T.

A pinon pine, 4 ins. dia., bears N.4°W., 54 lbs.

dist.. mkd. $\frac{1}{4}$ S 31 B T.

54.30 Old road, bears N. and S.

55.10 Bottom of hollow, 250 ft. below ridge, course South 5.00 chs.; thence SW.

Asc.

85.75 Fall 283 lbs. N. of the standard cor. of Tp. 30 S., Rs. 7 and 8 W., which is a granite stone, 12x10x10 ins., above ground.

Retracement 6th Standard Parallel S.through Range 7 W.-Contd.

Chains

firmly set, and mkd. and witnessed as described by the surveyor general.

I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for Standardz cor. of Tps. 30 S., Rs. 7 and 8 W., Mkd.on brass cap

T 30 S in N half.

R 8 W S 36 in NW.; and

R 7 W S 31 in NE. quadrants; from which

A pinon pine, 6 ins. dia. bears N.19°E., 20 lks.
dist..mkd.T 30 S R 7 W S 31 B T.

A cedar, 5 ins. dia. bears N.25°W., 28 lks.
dist..mkd.T 30 S R 8 W S 36 B T.

The course of the east half of this mile is therefore
S.87°51'W., 42.74 chs. and the west half is S.88°17'W., 41.
06 chs.

Land, mountainous.

Soil, sandy loam 2nd rate.

Timber, cedar and pinon pine.

Undergrowth, oak and sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 83.80 chs.

November 11, 1910.

John R Stewart

Instrumentman G.L.O.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**LIST OF NAMES.**

A list of the names of the individuals employed by
 United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of
 showing the respective capacities in which they acted:

....., *Chainman.*
 For list of names and final oath of assistants see book "P", *Chainman.*
 T. 30 S., R. 8 W., *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
 United States Deputy Surveyor, in surveying all
 those parts or portions of the

..... of the
 meridian, of which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for

....., *Chainman.*
, *Chainman.*
, *Moundman.*
, *Moundman.*
, *Axman.*
, *Axman.*
, *Flagman.*

Subscribed and sworn to before me this }
 day of , 1900 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 190_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final oath of transitman see book "Z" T. 31 S., R. 11 W.

of the _____
meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914.¹⁹¹⁸

The foregoing field notes of the survey of retracement of the Sixth Standard Parallel South, through Range No. 7 West of the Salt Lake Base and Meridian, Utah,

executed by John R. Stewart
under his contract No. _____, special instructions _____, dated August 6, 1910, 190_____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas H. Bell
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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Filed March 11, 1911.

WSH.

Ex.M.F.Y.

4-679

BOOK A-385

L.

MSB.

FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N

A N D

RETRACEMENT OF SURDIVISION AND WEST BOUNDARY

O F

TOWNSHIP NO. 31 SOUTH, RANGE NO. 7 WEST

Of the SALT LAKE BASE AND Meridian,

In the State of STATE OF UTAH

EXECUTED BY

JOHN R. STEWART AND QUINBY STEWART

TRANSITMEN

In the capacity of U.S. Surveyor, under instructions dated Aug. 6, 1910,
issued by the United States Surveyor General to govern surveys included in
Group No. 1, which were approved by the Commissioner of the General Land
Office, Aug. 25, 1910, pursuant to authority contained in the Act of
Congress dated , 1911.

Survey commenced October 23, 1910

Survey completed November 18, 1910

NAMES AND DUTIES OF ASSISTANTS.

R.Bert Carter,	Chainman.
Verne O.Nelson,	Chainman.
Isaac R.Hayes,	Moundman.
Ruban W.Riley,	Axman.
Maeser Dalley,	Chairman.
Harvey W.Elliott,	Chainman.
Alton Ivie,	Moundman.
Milo Nelson,	Axmen.

INDEX DIAGRAM.

Township *Range*

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

BOOK A-385

INDEX DIAGRAM.

Township Slidell *Range* 7 West

83	73	66	46	55
61	78	68	16	14
78	68	17	"	12
60	70	17	"	"
77	76	12	10	52
72	76	"	38	"
76	"	22	11	37
75	22	"	50	60
84	40	17	36	49
26	"	36	42	46
"	26	21	21	45
"	26	21	17	47
"	26	21	20	42

Meanders Page.

PRELIMINARY OATHS OF ASSISTANTS.

WE, R. Bert Carter and Verne O. Nelson

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Sub.Tps.31 S., Rs.7 and 8 W.; Sub.Tps.32 S., Rs.8 and 9 W.; Sub.T.34 S., R.10 W.Retracement Sub.and W.bdy.T.32 S., R.8 W.Retracement Sub.T.32 S., R.9 W.and Retracement Sub.T.34 S., R.10 W., S.L.B.& M., Utah.

Verne O. Nelson, Chainman.

Subscribed and sworn to before me this 23rd }

day of October 1910. xmx



John R Stewart
Instrumentman G.L.O.

WEX I Isaac R. Hayes.

xmx

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of Sub.Tps.31 S., Rs.7 and 8 W.; Sub.Tp.32 S., Rs.8 and 9 W.; Sub.T.34 S., R.10 W.; Retracement Sub.and W.bdy.T.32 S., R.8 W.Retracement Sub.T.32 S., R.9 W.; and Retracement Sub.T.34 S., R.10 W., S.L.B.& M., Utah.

Isaac R. Hayes, Moundman.

, Moundman.

Subscribed and sworn to before me this 23rd }

day of October 1910. xmx



John R Stewart
Instrumentman G.L.O.

WEX I Ruban W. Riley

xmx

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of Sub.Tps.31 S., Rs.7 and 8 W.; Sub.Tp.32 S., Rs.8 and 9 W.; Sub.T.34 S., R.10 W.Retracement Sub.and W.bdy.T.32 S., R.8 W.Retracement Sub.T.32 S., R.9 W. and Retracement Sub.T.34 S., R.10 W., S.L.B.& M., Utah.

Ruban W. Riley, Axman.

, Axman.

Subscribed and sworn to before me this 23rd }

day of October 1910. xmx



John R Stewart
Instrumentman G.L.O.

I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this

day of , 190 }



BOOK A-385

INDEX DIAGRAM.

Township....., Range.....

6	5	4	3	2	1
7	8	9	10	11	12
16	17	18	15	14	13
19	20	21	22	23	24
26	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Maeser Dalley and Harvey W. Elliott

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Sub.T.31 S., R.6,7, and 8 W.; Sub.Tps.32 and 33 S., R.9 W.; Sub.T.34 S., R.10 Retracement Sub.T.31 S., Rs.7 and 8 W.; and Tps.32 and 33 S., R.9 W. S.L.P. & M., Utah.

Maeser Dalley, Chainman.

Harvey Elliott, Chainman.

Subscribed and sworn to before me this 2nd
day of November 1910. }

Dunby Stewart

Instrumentman G.L.O.

I, Alton Ivie

xmk

do solemnly swear that I will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me, to the best of my skill and ability, in the survey of Sub.T.31 S., R.6,7, and 8 W.; Sub.Tps.32 and 33 S., R.9 W.; Sub.T.34 S., R.10 W. Retracement Subs.T.31 S., Rs.7 and 8 W.; and Tps.32 and 33 S., R.9 W., S.L.B. & M., Utah.

Alton Ivie

, Moundman.

Subscribed and sworn to before me this 2nd
day of November 1910. }

Dunby Stewart

Instrumentman G.L.O.

I, Milo Nelson

xmk

do solemnly swear that I will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given me, to the best of my skill and ability, in the survey of Sub.T.31 S., Rs.6,7, and 8 W.; Sub.Tps.32 and 33 S., R.9 W.; Sub.T.34 S., R.10 W. Retracement Subs.T.31 S., Rs.7 and 8 W.; and Tps.32 and 33 S., R.9 W., S.L.B. & M., Utah.

Milo Nelson

, Axman.

Subscribed and sworn to before me this 2nd
day of November 1910. }

Dunby Stewart

Instrumentman G.L.O.

I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this
day of , 190 }



Retracement Subdivision T.31 S., R.7 W.

Survey commenced October 23, 1910, and executed with a Young and Sons light mountain transit, No. 7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m., hours with a meridian established by Polaris observation, I proceed as follows:

At the cor. of secs. 3, 4, 53, and 54, on S. bdy. of Tp., latitude $38^{\circ}04'17''$ N., longitude $112^{\circ}36'30''$ W., I set off $38^{\circ}04'$ N., on the lat. arc; $11^{\circ}19'$ S., on the decl. arc; and at 3 h 45 m p.m. l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

At 5 h 27 m p.m. l.m.t., I observe Polaris at eastern elongation in accordance with the Manual, and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor.

October 23, 1910.

October 24, 1910: At 7 h 10 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}29.4'$ to the west and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of the cor. This mark falls 0.37 ins. east of the meridian determined by the solar.

Retracement Sub.T.31 S., R.7 W. °Continued.

Chains	<p>At 7 h 44 m a.m., l.m.t., I set off $38^{\circ}05'N.$, on the lat. arc; $11^{\circ}33'S.$, on the decl. arc; and mark the meridian determined by the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.31 ins. east of the meridian established by Polaris observation. The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0'19''$ west and $0'16''$ East of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.</p> <p>The magnetic bearing of the meridian at 8 h 0 m a.m. is N.$16^{\circ}01'W.$; the angle thus determined gives the mag. decl. $16^{\circ}01'E.$</p> <hr/> <p>Note: Before commencing the subdivision of this Tp. I proceed to retrace the line adjoining my work because the old cor.s. were set so long ago that it is very difficult to find them.</p> <p>From the cor. of secs. 3, 4, 33, and 34, on S.bdy. of Tp., heretofore described,</p> <p>I run</p> <p>North, on a retracement line bet. secs. 33 and 34.</p> <p>Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.</p> <p>From this cor. Cedar Spring bears N.$70^{\circ}E.$, about 30s00 chs. dist.</p> <p>Desc.</p>
8.20	Road from Buckskin Valley to Parowan, bears N. $75^{\circ}W.$ and S. $75^{\circ}E.$.
9.00	Buckskin Hollow, 60 ft. below cor., course N. $75^{\circ}W.$
39.81	Fall 9 lks.E. of the $\frac{1}{4}$ sec.cor., bet. secs. 33 and 34, which is conglomerate stone, 11x8x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor geneer-

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains

al.

I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 33 in W half and S 34 in E half.; from which

A cedar, 10 ins.dia., bears N.8°E., 114 lks.

dist..mkd. $\frac{1}{4}$ S 34 B T.

A cedar, 14 ins.dia., bears N.5°W., 104 lks.

dist..mkd. $\frac{1}{4}$ S 33 B T.

80.17

Fall 19 lks.E.of the cor.of secs.27,28,33, and 34, which is a cedar , 20 ins.in dia., mkd.and witnessed as described by the surveyor general.The tree cor.is partly dead therefore I destroy it and re-establish the cor.in the same place as follows:

Set an iron post, 3 ft.long, 2 ins. in dia., 24 ins.in the ground, for cor.of secs.27,28,33, and 34,mkd.on brass cap

T 31 S S 28 in NW.

R 7 W S 27 in NE.

S 34 in SE.;and

S 33 in SW.quadrants;from which

A pinon pine,8 ins.dia.,bears N.77°E.,36 lks.

dist..mkd.T 31 S R 7 W S 27 B T.

A cedar,8 ins.dia.,bears S.54°E.,42 lks.

dist..mkd.T 31 S " 7 W S 34 B T.

A cedar,8 ins.dia.,bears S.43°W.,49 lks.

dist..mkd.T 31 S R 7 W S 33 B T.

A cedar,14 ins.dia.,bears N.58°W.,12 lks.

dist..mkd.T 31 S R 7 W S 28 B T.

The course of this mile is therefore N.0°8'W.,80.17 chs
Land,rolling ridges and hollows,sloping and draining west.
Soil,clay loam about 2 ft.deep,gravel and clay subsoil.
Timber,cedar and pinon pine (heavy).
Undergrowth,oak,sage and buck brush (scattering).
No grass

Retracement Sub.T.51 S., R.7 W.-Continued.

Chains

Mountainous or heavily timbered land, 80.17 chs.

North, on a retrace ment line bet. secs. 27 and 28.

Over mountainous land; through heavy cedar and pinon pine timber dense sage brush and scattering oak and buck brush.

Asc. gradually.

22.40 Begin abrupt ascent, bears E. and W.

40.00 Fall 3 lks. E. of the $\frac{1}{2}$ sec. cor. bet. secs. 27 and 28, which is a sandstone, 10x10x5 ins., above ground, loosely set and mkd. and witnessed as described by the surveyor general. The stone is loosely set and marks are dim; therefore I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 28 in W half and S 27 in E half; from which

A piñon pine, 8 ins. dia., bears S. 25° E., 9 lks.
dist.. mkd. $\frac{1}{4}$ S 27 B T.

A cedar, 9 ins. dia., bears N. 86° W., 57 lks.
dist.. mkd. $\frac{1}{4}$ S 28 B T.

43.60 Top of ridge, 150 ft. above cor., bears E. and W.

Done.

69.70 Bottom of hollow, 190 ft. below ridge, course N. 20° W.
Asc.

75.30 Top of spur, 100 ft. above hollow, bears N. 15° W. and S. 75° E.

Done.

80.00 Fall 7 lks. E. of the cor. of secs. 21, 22, 27, and 28, which is an iron stone, 10x8x8 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The stone is poorly mkd. therefore I destroy the old cor. and re-establish it in the same place as follows:

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains	<p>Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, mkd. on brass cap</p> <p>T 31 S S 21 in NW.</p> <p>R 7 W S 22 in NE.;</p> <p>S 27 in SE.; and</p> <p>S 28 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.</p> <p>The course of this mile is therefore N.0°3'W., 80.00 chs.</p> <p>Land, mountainous west slope.</p> <p>Soil, sandy loam; 1 ft. deep, covered with volcanic rock, subsoil gravel.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage, oak, and buck brush.</p> <p>Light growth of grass.</p> <p>Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.</p> <p>October 24, 1910: At this cor. I set off 11°38'S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°06'N., which is the proper lat. nearly.</p> <hr/> <p>North, on a retracement line bet. secs. 21 and 22.</p> <p>Over mountainous land; through scattering cedar and pinon pine timber and scattering sage brush.</p> <p>Desc.</p> <p>.50 Bottom of gulch, 10 ft. deep, course N.60°W.</p> <p>7.60 Top of ridge, 100 ft. above gulch, bears N.50°W. and S.50°E</p> <p>Desc.</p> <p>22.50 Bottom of hollow, 80 ft. below ridge, course W.</p> <p>Asc.</p> <p>29.30 Top of spur, 65 ft. above hollow, bears E. and W.</p> <p>Desc.</p> <p>40.00 Fall 37 lks. W. of the $\frac{1}{2}$ sec. cor. bet. secs. 21 and 22, which is a red sandstone, 12x12x6 ins., above ground, firmly set,</p>
--------	--

Retracement Sub.T.31 S., R.7. W.-Continued.

- Chains and mkd.and witnessed as described by the surveyor general.The stone is greatly decayed therefore I destroy the old cor.and re-establish it in the same place as follows:
Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 21 in W half and S 22 in E half;from which
A pinon pine,8 ins.dia.,bears S.56°E.,80 lks.
dist..mkd. $\frac{1}{4}$ S 22 B T.
A pinon pine,8 ins.dia.,bears S.36°W.,80 lks.
dist..mkd. $\frac{1}{4}$ S 21 B T.
- 44.00 Leave timber,bears NE and SW.
Enter dense sage brush,bears NE and SW.
- 59.00 Bottom of hollow,90 ft.below spur,course N.10°E..
Asc.along east slope of knoll .
- 80.00 Fall 38 lks.West of the cor.of secs.15,16,21, and 22, which is an iron stone,6x10x8 ins.,above ground,loosely set and mkd.and witnessed as described by the surveyor general.The cor.is undersize and poorly set,therefore I destroy the old cor.and re-establish it in the same place as follows:
Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground for cor.of secs.15,16,21, and 22,mkd.on brass cap T 31 S S 16 in NW.
R 7 W S 15 in NE.
S 22 in SE.;and
S 21 in SW.quadrants;and raise a mound of stone,2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.
The course of this line is therefore S.half:N.0°33'E.,40.00 chs. North half;North 40.00 chs.
land,mountainous gradual slopes drains westerly.
Soil,sandy loam mixed with cobble rock and gravel,about 1 ft.deep,Subsoil gravel.
Timber,scattering cedar and pinon pine.
Undergrowth,sage brush.

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

October 24, 1910.

October 29, 1910: At 7 h 44 m a.m., l.m.t., I set off 38°07' N., on the lat.arc; 13°15'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.15,16,21, and 22.

Thence I run

East, on a retracement line betsecs.15 and 22.

Over mountainous land; through dense sage brush.

- 1.70 Wash, 15 lks.wide, 3 ft.deep, course N.
Enter valley .
- 15.20 Wash, 15 lks.wide, 4 ft.deep, course N.10°W.
- 36.98 Intersect $\frac{1}{4}$ sec.cor.betsecs.15 and 22, which is a white stone, 8x12x10 ins.above ground, firmly set, and mkd.and witnessed as described by the surveyor general, the stone is greatly decayed therefore I destroy the old cor.and re-establish it in the same place as follows:
Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S:15 in N half and S.22 in S.half;and raise a mound of stone, 2 ft. base: $1\frac{1}{2}$ ft.high, N.of cor.
- 37.60 Wash, 10 lks.wide, 3 ft.deep, course N.
Asc.
- 46.00 Wash, 20 lks.wide, 4 ft.deep, course N.10°W.
Asc.
- 55.00 Wash, 10 lks.wide, 3 ft.deep, course N.10°W.
Asc.
- 69.00 Wash, 15 lks.wide, 4 ft.deep, course N.13°W.
Asc.

Retracement Sub.T.31 S., R.7 W.-Continued.

- Chains 69.50 Enter scattering cedar and pinon pine timber, bears N. and S.
- 76.11 Fall 128 lks. S. of the cor. of secs. 14, 15, 22, and 23, which is an iron stone, 6x12x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The stone is poorly mkd. and undersize therefore I destroy the old cor. and re-establish it in the same place as follows:
- Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for cor. of secs. 14, 15, 22, and 23, mkd. on brass cap
- T 31 S S 15 in NW.
R 7 W S 14 in NE.
S 23 in SE.; and
S 22 in SW. quadrants; from which
A cedar, 6 ins. dia., bears N. 42° E., 94 lks.
dist.. mkd. T 31 S R 7 W S 14 B T.
A cedar, 5 ins. dia., bears S. 8° 30' E., 132 lks.
dist.. mkd. T 31 S R 7 W S 23 B T.
A cedar, 8 ins. dia., bears S. 70° W., 84 lks.
dist.. mkd. T 31 S R 7 W S 22 B T.
A cedar, 7 ins. dia., bears N. 32° W., 263 lks.
dist.. mkd. T 31 S R 7 W S 15 B T.
- The course of the west half of this mile is therefore East 36.98 chs. the east half is N. 89° 35' E., 39.13 chs. Land, nearly level valley sloping gently northward iron stone cobble rock covered the surface.
- Soil, sandy loam about 3 ft. deep, mixed with cobble rock; 3rd rate. gravelly subsoil.
- Timber, cedar and pinon pine.
- Undergrowth, sage brush.
- no grass;
- Land covered with dense undergrowth, 76.11 chs.

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains

November 7, 1910. At 7 h 44 m a.m., l.m.t., I set off $38^{\circ}07'$ N., on the lat.arc; $16^{\circ}06'$ S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.14, 15, 22, and 23.

Thence I run

North, on a retracement line bet.secs.14 and 15.

Over rolling land in valley; through scattering cedar and pinon pine timber and dense sage brush.

Desc.gradually.

- 10.00 Leave timber, bears E.and W.
- 22.30 Wash, 10 lks.wide, 1 ft.deep, course W.
- 40.14 Fall 6 lks.East of the $\frac{1}{4}$ sec.cor.bet.secs.14 and 15, which is an iron stone, $10 \times 10 \times 6$ ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general.
I destroy the old cor.and re-establish it in the same place as follows:
Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 15 in W half and S 14 in E half;and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.
- 78.75 Wash, 40 lks.wide, 5 ft.deep, from Fremont Canon, course W.
- 83.71 Fall $1\frac{1}{2}$ lks.East of the cor.of secs.10,11,14, and 15, which is a cobble stone, $11 \times 8 \times 10$ ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general.
I destroy the old cor.and re-establish it in the same place as follows:
Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.10,11,14, and 15,mkd.on brass cap T 31 S S 10 in NW.
R 7 W S 11 in NE.
S 14 in SE.;and

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains	<p>S 15 in SW.quadrants; dig pits, 18x18x12 ins. in each sec. 5$\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft base, 2 ft. high, W.of cor.</p> <p>The course of this mile is therefore N.0°5'W., 83.71 chs. Land, nearly level valley sloping westerly. Soil, sandy loam about 3 ft. deep, soft and even texture. Subsoil, gravel. Timber, cedar and pinon pine. Undergrowth, sage brush. A light growth of grass. Land covered with dense undergrowth, 83.71 chs.</p>
13.00	East, on a retrace line bet.secs.11 and 14.
13.25	Over rolling valley land; through dense undergrowth.
Asc.	Asc.gradually.
35.20	Wash, 30 lks.wide, 4 ft.deep, from Fremont Canon, course
S.65°W.	S.65°W..
Asc.	Asc.
36.00	Old wood road, bears NE and SW.
Asc.	Asc.
37.00	Enter scattering cedar and pinon pine, bears NE and SW.
40.00	Intersect the $\frac{1}{4}$ sec.cor.bet.secs.11 and 14, which is a
gray sandstone, 12x10x8 ins., above ground, firmly set, and	
mkd.and witnessed as described by the surveyor general,	
The cor.stone is badly decayed; therefore I destroy the	
old cor.and re-establish it in the same place as	
follows:	

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains	dist..mkd. $\frac{1}{4}$ S 11 B T. A cedar, 16 ins.dia., bears S.20°E., 25 lks. dist..mkd. $\frac{1}{4}$ S 14 B T.
47.00	Top of ridge, 90 ft.above valley,bears N.15°W.and S.15°E Desc.
49.00	Road from Beaver to Panguitch,bears N.35°W.and S.35°E.
49.25	Bottom of hollow, 40 ft below ridge, course N.35°W. Asc.
53.00	Top of spur, 50 ft.above hollow, bears N.and S. Desc.
61.70	Bottom of swale, 30 ft.below spur, course NW. Asc.
64.60	Top of spur, 30 ft.above swale,bears NW and SE. Desc.
66.35	Bottom of swale, 26 ft.below spur, course NW. Asc.
82.84	Fall 224 lks.S.of the cor.of secs.11,12,13, and 14, which is a sandstone, 20x12x10 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general The cor.stone is badly decayed therefore I destroy the old cor.and re-established it in the same place as follows: Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.11,12,13, and 14,mkd.on brass cap T 31 S S 11 in NW. R 7 W S 12 in NE. S 13 in SE.;and S 14 in SW.quadrants;from which A cedar, 10 ins.dia., bears N.23°E., 18 lks. dist..mkd.T 31 S R 7 W S 12 B T. A cedar, 14 ins.dia., bears S.17°E., 31 lks. dist..mkd.T 31 S R 7 W S 13 B T. A pinon pine, 6 ins.dia., bears S.3°30'W., 22 lks. dist..mkd.T 31 S R 7 W S 14 B T.

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains

A cedar, 10 ins. dia., bears. N.50°W., 47 lks.

dist.. m.kd.T 31 S R 7 W S 11 B T.

The course of the west half of this mile is therefore East 40.00 chs. the east half is N.87°E., 42.90 chs.

W.36.00 chs. over nearly level valley land sloping and draining westerly. Soil, sandy loam about 2 ft. deep, rich and soft. clay subsoil. No timber. Undergrowth, sage brush. No grass .E.46.90 chs. over rough and broken ridges and hollows draining northwesterly. Soil, sandy loam about 1 ft. deep, gravel subsoil, Cedar and pinon pine timber . Undergrowth, scattering sage brush .A very little grass. Mountainous or heavily timbered land, or land covered with dense undergrowth, 82.90 chs.

November 7, 1910: At this cor. I set off 16°11'S., on the decl.arc; and at, 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°08'N., which is the proper lat. nearly.

North, on a retrace ment line bet. secs. 11 and 12.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Desc..

7.80 Bottom of hollow, 50 ft. below cor., course N.40°W.

Asc..

12.00 Top of spur, 40 ft. above hollow, bears N.45°W. and S.45°E.
Desc..

20.50 Bottom of descent, 50 ft. below spur, bears N.60°W. and S.60°E.

Enter bottom of Fremont Canon.

26.65 Old road, bears N.60°W. and S.60°E..

Leave heavy and enter scattering timber, bears N.60°W. and S.60°E..

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains

- 31.75** Wash, 75 lks.wide, 10 ft.deep, course S.60°W.
- 59.73** Fall 110 lks.East of the $\frac{1}{4}$ sec.cor.betsecs.11 and 12, which is an iron stone, 10x16x12 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general; The corner stone is poorly mkd.therefore I destroy the old cor.and re-establish it in the same place as follows:
Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 11 in W half and S 12 in E half;from which
A cedar, 6 ins.dia., bears N.16°E., 107 lks.
dist..mkd. $\frac{1}{4}$ S 12 B T.
A cedar, 12 ins.dia., bears N.20°W., 102 lks.
dist..mkd. $\frac{1}{4}$ S 11 B T.
- 64.70** Wash, 20 lks.wide, 2 ft.deep, course W.
Asc. from canon bottom.
- 77.50** Top of ridge, 300 ft.above canon bottom, bears E.and W.
Desc.
- 78.06** Fall 164 lks.E.of the cor.of secs.1,2,11, and 12,which is a quartzite stone, 16x8x8 ins.loosely set in the ground, mkd.and witnessed as described by the surveyor general, I destroy the old cor.and re-establish it in the same place as follows:
Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.1,2,11, and 12,mkd.on brass cap
T 31 S S 2 in NW.
R 7 W S 1 in NE.
S 12 in SE.;and
S 11 in SW.quadrants;and raise a mound of stone, 2 ft.base, 1 $\frac{1}{2}$ ft.high,W.of cor.
The course of the south half of this mile is therefore N.1°35'W., 39.73 chs.;the north half is N.0°48'W., 38.35 chs.
S.20.50 chs.over rolling mountainous land,northwest slope and drainage.Soil,clay about 2 ft.deep,mixed with vol-

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains	canic rock. Subsoil, gravel and clay. Timber, cedar and pinon pine. Undergrowth sage brush. No grass. From 20.50 chs. to 64.70 chs. is in Fremont Canon bottom. slopes west. Soil, rich sandy loam about 2 ft. deep, on gravel subsoil. No timber. Undergrowth, sage brush. No grass. N.13.36 chs. rolling mountainous land slopes south and drains west. Soil, sandy loam mixed with cobble rock about 2 ft. deep, gravelly subsoil. Timber, cedar and pinon pine. Undergrowth, sage and oak brush. Light growth of grass. Mountainous or heavily timbered land, or land covered with dense undergrowth, 78.06 chs.
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November 7, 1910.

November 8, 1910: At 7 h 44 m a.m. l.m.t., I set off $38^{\circ}09'$ N., on the lat.arc; $16^{\circ}24'$ S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.1,2,11, and 12.

Thence I run

N. $89^{\circ}51'$ W., on a retrace line bet.secs.2 and 11.

Over rolling mountainous land; through dense sage brush.

Desc.

3.00	Bott of descent, 80 ft. below cor., bears N.and S. Enter broad hollow.
10.20	Wash, 25 lks.wide, 3 ft.deep, course S. 20° W.
25.00	Leave hollow, bears N. 30° E.and S. 30° W. Asc.
30.00	Top of ridge, 60 ft.above hollow, bears NE and SW. Desc.
40.75	Fall 37 lks.S.of the $\frac{1}{4}$ sec.cor.bet.secs.2 and 11, which is an iron stone, 5x12x8 ins., above ground, firmly set, and mkl. and witnessed as described by the surveyor general, the stone is undersize and poorly mkd. therefore I destroy it and re-establish the cor.in the same place as follows:

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 2 in N half and S 11 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.of cor.
49.00	Foot of descent, 60 ft. below ridge, bears N.35°E.and S.35°W. Enter valley.
53.25	Wash, 20 lks.wide, 4 ft.deep, course S.35°W.
55.50	Road from Parowan to Beaver, bears N.35°E.and S.35°W.
58.20	Telephone line, from Parowan to Beaver, bears N.35°E.and S.35°W..
82.52	Fall 50 lks.South of the cor.of secs.2,3,10, and 11, which is a white sandstone, 5x10x8.in., above ground, loosely set, and mkd.and witnessed as described by the surveyor gener-al.The cor.stone is undersize therefore i destroy the old cor.and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 2 ins.in dia., 16 ins.in the ground, on rock, and surrounded by mound of earth and stone, for cor.of secs.2,3,10, and 11, mkd.on brass cap T 31 S S 2 in NW. R 7 W S 2 in NE. S 11 in SE.; and S 10 in SW.quadrants; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft. high, W.of cor. Course of the east half is N.89°20'W., 40.75 chs.and the west half is N.89°40'W., 41 .77 chs. Land,E.49.00 chs.over rolling mountainous land;sloping southerly and drains southerly.Soil,sandy loam about 16 ins.deep,mixed with cobble rock.Subsoil,gravel.loose. No timber.Undergrowth,dense sage brush.No grass. W.33.52 chs.over rolling valley sloping gently southward. Soil,sandy clay loam;3 ft.deep,mixed with some cobble rock.Subsoil,gravel and clay.No timber.Undergrowth,sage A very little grass. Mountainous land,or land covered with dense undergrowth.

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains

82.52 chs.

S.89°48'W., on a retracement line betsecs.3 and 10.

Over nearly level valley land; through dense sage brush.

Asc.gently.

25.25 Wash, 20 lks.wide, 2 ft.deep, course SE.

52.00 Leave valley, bears N.and S.

Asc.

34.60 Enter scattering cedar and pinon pine timber, bears NE and S.

40.00 Fall 9 lks.N.of $\frac{1}{2}$ sec.cor.betsecs.3 and 10, which is a conglomerate stone, 11x8x8 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general ; the stone is badly decayed and therefore I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 3 in N half and S 10 in S half; from which

A pinon pine, 6 ins.dia., bears N.14°W., 73 lks.
dist..mkd. $\frac{1}{4}$ S 3 B T.

A pinon pine, 5 ins.dia., bears S.72°E., 41 lks.
dist..mkd. $\frac{1}{4}$ S 10 B T.

80.00 Fall 19 lks.N. cor.of secs.3,4,9, and 10, which is a red sandstone, 10x10x10 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general, The cor.is partly decayed therefore I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post , 3 ft.long, 2 ins.in dia., 16 ins. in the ground, on rock, and surrounded by mound of earth and stone, 2 ft.base, 1 $\frac{1}{2}$ ft.high, for the cor.of secs.3,4,9, and 10, mkd.on brass cap

T 31 S S 4 in NW.

Retracement Sub.T.31 S., R.7 W.-Continued.

- Chains R 7 W S 3 in NE.
 S 10 in SE.; and
 S 9 in SW.quadrants; from which
 A pinon pine, 9 ins.dia., bears N.41°E., 10 lks.
 dist..mkd.T 31 S R 7 W S 3 B T.
 "A pinon pine, 6 ins.dia., bears S.41°E., 26 lks.
 dist..mkd.T 31 S R 7 W S 10 B T.
 No other trees within limits; raise a mound of stone, 2
 ft.base, 1 $\frac{1}{2}$ ft.high, W.of cor.
 The course of this mile is S.89°40'W., 80.00 chs.
 E.32.00 chs.over nearly level valley, gentle slope east
 Soil, sandy loam from 1 to 2 ft.deep, mixed with cobble
 rock, subsoil, gravel. No timber. Undergrowth, sage brush.
 No grass .W.48.00 chs.over steep east slope of ridge
 covered with lava rock. Soil, sandy loam about 1 ft.deep,
 mixed with rock, subsoil, clay. Timber, cedar and pinon pine
 undergrowth, sage and oak. A very little grass.
 Mountainous land, or land covered with dense undergrowth,
 80.00 chs.
 November 8, 1910; At the noon hour the sky is overcast and
 solar observations are impossible.
-
- South, on a retrace ment line bet.secs.9 and 10.
 Over mountainous land; through scattering cedar and
 pinon pine timber and dense sage brush.
 Asc.
 2.00 Top of knoll on ridge, 20 ft.high, bears E. and W.
 Desc.
 34.80 Road, bears SE. and NW.
 Bottom of hollow, 350 ft.below knoll, course SE.
 Asc.
 40.15 Intersect $\frac{1}{4}$ sec.cor.bet.secs.9 and 10, which is a gray
 sandstone, 10x12x7 ins., above ground, firmly set, and mkd.

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains	and witnessed as described by the surveyor general; the stone is partly decayed and poorly mkd. therefore I destroy the old cor. and re-establish it in the same place as follows:
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 9 in W half and S 10 in E half; from which
	A pinon pine, 6 ins. dia., bears N.20°E., 12 lks. dist.. mkd. $\frac{1}{4}$ S 10 B T.
	A cedar, 8 ins. dia., bears S.81°W., 54 lks. dist.. mkd. $\frac{1}{4}$ S 9 B T.
51.00	Top of spur, 60 ft. above hollow, bears E. and W. Desc.
57.00	Bottom of hollow, 30 ft. below spur, course .E. Asc.
66.15	Top of spur, 40 ft. above hollow, bears E. and W. Desc
76.00	Leave timber, bears E. and W.
80.77	Fall 326 lks. W. of the cor. of secs. 9, 10, 15, and 16, which is a white sandstone, 10x12x12 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general; The cor. stone, is badly decayed therefore I destroy the old cor. and re-establish it in the same place as followz:
	Set an iron post, 3 ft. long, 2 in. in dia., 24 ins. in the ground, for cor. of secs. 9, 10, 15, and 16, mkd. on brass cap T 31 S S 9 in NW. R 7 W S 10 in NE. S 15 in SE.; and S 16 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	The course of the north half of this mile is South, 40.15 chs.; and the south half is S.4°35'E., 40.75 chs. Land, mountainous steep east slopes of ridges. Soil, sandy clay mixed with coarse gravel and covered

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains	with volcanic rock. Subsoil clay. Timber, cedar and pinon pine. Undergrowth, sage brush. A very little grass.
	Mountainous land, or land covered with dense undergrowth, 80.50 chs.
	S.89°55'W., on a retracement line bet. secs. 9 and 16.
	Over mountainous land; through dense sage brush.
	Asc.
17.10	Bottom of hollow, 300 ft. below cor., course S.10°W.
	Asc.
30.15	Top of spur, 160 ft. above hollow, bears N.20°W. and S.20°E.
	Desc.
34.65	Bottom of hollow, 50 ft. below spur, course S.20°E.
	Asc.
39.97	Fall 3 lks. S. of the sec. cor. bet. secs. 9 and 16, which is a sandstone, 8x10x6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The cor. is badly decayed & therefore destroy the old cor. and re-establish it in the same place as follows:
	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 9 in N half and S 16 in S half; and raise a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor.
44.70	Top of spur, 60 ft. above hollow, bears N.30°W. and S.30°E
	Desc.
53.60	Wash, 5 lks. wide, 2 ft. deep, in bottom of hollow, 50 ft. below spur, course S.
	Asc.
64.00	Top of spur, 50 ft. above hollow, bears N. and S.
	Desc.
66.00	Old road, bears NW and SE.

Retracement sub.T.31 S., R.7 W.-Continued.

Chains

- 66.30 Wash, 20 lks. wide, 2 ft. deep, in mouth of hollow, 25 ft. below spur, course S.30°E.
Asc.
- 75.20 Enter scattering cedar and pinon pine timber, bears N E and SW.
- 80.02 Fall 46 lks. N. of the cor. of secs. 8, 9, 16, and 17, which is a red sandstone, 8x10x10 ins., above ground, well set and mkd. and witnessed as described by the surveyor general. The cor. stone is partly decayed I therefore destroy the old cor. and re-establish it in the same place as follows. Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 8, 9, 16, and 17, mkd. on brass cap
 T 31 S 8 in NW.
 R 7 W S 9 in NE.
 S 16 in SE. and
 S 17 in SW. quadrants; from which
 A cedar, 6 ins. dia., bears N.86°E., 62 lks.
 dist..mkd.T 31 S R 7 W S 9 B T.
 A cedar, 6 ins. dia., bears S.67°E., 83 lks.
 dist..mkd.T 31 S R 7 W S 16 B T.
 A cedar, 8 ins. dia., bears S.75°W., 181 lks.
 dist..mkd.T 31 S R 7 W S 17 B T.
 A cedar, 6 ins. dia., bears N.60°W., 108 lks.
 dist..mkd.T 31 S R 7 W S 8 B T.
- The course of the east half of this mile is therefore S.89°58'W., 39.97 chs. and the west half is S.89°13'W., 40.0 5 chs.
- Land, rough and broken ridges and hollows draining south
 Soil, sandy clay loam about 1 ft. deep, mixed with gravel and volcanic rock. Subsoil, hard clay and gravel.
 Timber, cedar and pinon pine.
 Undergrowth, sage brush.
 A little grass in patches.

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains

Mountainous land, or land covered with dense undergrowth,
80.02 chs.

November 8, 1910.

November 9, 1910: At 7 h 44 m a.m., l.m.t., I set off $38^{\circ}08'N.$,
on the lat.arc; $16^{\circ}41'S.$, on the decl.arc; and determine a
meridian with the solar, at the cor.of secs. 8, 9, 16, and 17.
Thence I run

South on a retracement line bet.secs. 16 and 17.

Over mountainous land; through scattering cedar and pinon
pine timber and dense undergrowth.

Asc.

1.00 Top of spur, 50 ft. above cor., bears E. and W.

Desc.

4.70 Leave timber, bears E. and W.

13.00 Bottom of hollow, 300 ft. below spur, course E.

Asc.

18.40 Top of spur, 75 ft. above hollow, bears E. and W.

Desc.

40.06 Fall 27 lks.W.of the $\frac{1}{4}$ sec.cor.bet.secs. 16 and 17., which
is a gray sandstone, 11x10x10 ins., above ground, firmly set
and mkd.and witnessed as described by the surveyor gener-
al.

I destroy the old cor.and re-establish it in the same place
as follows:

Set an iron post, 3 ft.long, 1 in.in dia., 20 ins.in the ground
on solid rock, and surrounded by mound of earth and stone
for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 17 in W half and S 16
in E half; and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high
W.of cor.

61.00 Foot of descent, 200 ft. below spur, bears NE and SW.
Enter valley.

81.41 Fall 100 lks.W.of the cor.of secs. 16, 17, 20, and 21, which is

Retracement Sub.T.31 S.; R.7 W.-Continued.

- Chains a sandstone ,9x10x8 ins.,above ground,loosely set, and mkd.and witnessed as described by the surveyor general, the cor. stone is not well set and is partly decayed. I destroy the old cor.and re-establish it in the same place as follows:
- Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.16,17,20 and 21.mkd.on brass cap
- T 31 S S 17 in NW.
R 6 W S 16 in NE.
S 21 in SE.;and
S 20 in SW.quadrants;dig pits,18x18x12 ins.,in each sec.5 $\frac{1}{2}$ ft.dist.and raise a mound of earth,4 ft.base,2 ft.high,W.of cor.
- The course of the north half of this mile is therefore S.0°23'E.,40.06 chs.and the south half is S.1°01'E.,41.36 chs.
- N.61.00 chs.over mountainous land sloping southeast. Soil,sandy clay loam mixed with volcanic rock and covered with volcanic rock.Clay subsoil,Timber,cedar and pinon pine.Undergrowth,sage brush.A very little grass.
- S.20.42 chs. chs.in nearly level valley.sloping gently eastward;rich sandy loam soil,about 2 ft.deep,on clay and gravel subsoil.No timber.Undergrowth,sage brush.No grass.
- Mountainous land,or land covered with dense undergrowth, 81.41 chs,
-
- S.89°53'W.,on a retracement line betsecs.17 and 20. Over nearly level valley land;through dense sage brush. Asc.gently.
- 19.00 Leave valley,bears NE and SW.
Asc.
- 36.50 Top of spur,250 ft.above valley,bears N.30°W.and S.30°E.
Desc.

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains	
40.03	Fall 6 lks N. of the $\frac{1}{4}$ sec.cor.betsecs.17 and 20, which is sandstone, 8x10x8 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The cor.stone is greatly decayed therefore I destroy the old cor.and re-establish it in the same place as follows; Set an iron post, 3 ft.long, 1 in.in dia., 18 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor..mkd.on brass cap. $\frac{1}{4}$ S 17 in N half and S 20 in S half; and raise a mound of stone, 2 ft.base 1 $\frac{1}{2}$ ft.high, N.of cor.
46.40	Bottom of hollow, 110 ft.below spur, course SE. Asc.abruptly.
65.35	Top of spur, 400 ft.above hollow, bears N.W.and SE. Desc.
75.00	Enter scattering cedar and pinon pine timber, bears NE and SW.
79.70	Bottom of hollow, 275 ft.below spur, course S.20°E. Asc.
79.99	Fall 13 lks.N. of the cor.of secs.17,18,19, and 20, which is a stationary iron stone, 30x26x12 ins., above ground, mkd.and witnessed as described by the surveyor general. The markings on the cor.are poor; I therefore destroy the old cor.and re-establish it in the same place as follows; Set an iron post, 3 ft.long, 2 ins.in dia., 20 ins.in the ground, on bed rock, and surrounded by mound of earth and stone, for cor.of secs.17,18,19, and 20, mkd.on brass cap T 31 S S 18 in NW. R 7 W S 17 in NE.. S 20 in SE.; and S 19 in SW.quadrants; from which A cedar, 6 ins.dia., bears N.5°30'E, 16 lks.dist. mkd.T 31 S R 7 W S 17 B T. A cedar, 6 ins.dia., bears S.40°45'E., 10 lks. dist..mkd.T 31 S R 7 W S 20 B T.

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains

A cedar, 9 ins. dia., bears S.63°40'W., 60 lks.

dist..mkd.T 31 S R 7 w S 19 B T.

A cedar, 9 ins. dia., bears N.23°40'W., 20 lks.

dist..mkd.T 31 S R 7 w S 18 B T.

The course of this mile is therefore S.89°48'W., 79.99 chs.

E.19.00 chs.is over rolling valley land sloping gently to the east. Soil rich sandy and clay loam 2 ft. deep, hard clay subsoil. No timber. Undergrowth, dense sage brush. A very little grass. W.60.99 chs. Over mountainous land, slopes and drains southeasterly. Soil, sandy loam from 6 ins.to 1 ft. deep, and mixed with iron stone cobble rock Subsoil, clay and gravel. Cedar and pinon pine timber. Undergrowth, sage brush. Good grass.

Mountainous land, or land covered with dense undergrowth 79.99 chs.

November 9, 1910: At this cor. I set off 16°46'S., on the decl.arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian the resulting lat. is 58°07'W., which is the proper lat. nearly.

South, on a retrace ment line bet.secs.19 and 20.

Over mountainous land; through scattering cedar and pinon pine timber and dense sage brush.

Asc.

6.60 Top of spur, 40 ft. above cor., bears NW and SE.

Desc.

33.00 Wood road, bears N.70°W. and S.50°E.

35.50 Bottom of hollow, 400 ft. below spur, course S.50°W.

Asc.

40.06 Fall 3 lks.E.of the $\frac{1}{2}$ sec.cor.bet.secs.19 and 20, which is a red sandstone, 8x8x8 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The cor. stone is undersize and poorly mkd. therefore I

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains	destroy the old cor. and re-establish it at the same point as follows: Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 19 in W half and S 20 in E half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.of cor.
44.00	Top of spur, 200 ft. above hollow, bears NW and SE. Desc.
52.10	Bottom of hollow, 120 ft. below spur, course SE. Asc.
72.30	Top of spur, 100 ft. above hollow, bears N.55°W. and S.55°E. Desc.
81.64	Fall 116 lks. W.of the cor.of secs.19,20,29, and 30, which is a granite stone, 10x10x6 ins. above ground, loosely set, and mkd. and witnessed as described by the surveyor general, the cor.is loosely set and poorly mkd.therefore I destroy it and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 2 ins. in the dia., 24 ins., in the ground, for cor.of secs.19,20,29, and 30,mkd.on brass cap T 31 S S. 19 in NW. R. 7 W S. 20 in NE. S. 29 in SE.;and S. 30 in SW.quadrants;dig pits, 18x18x12 ins., in each sec.5 $\frac{1}{2}$ ft.dist.;and raise a mound of earth 4 ft.base, 2 ft.high,W.of cor. The course of the north half of this mile is therefore S.0°03'W., 40.06 chs.;and south half is S.1739'E., 41.50 chs.
	Land mountains slopes and drains southeast is steep and rough .
	Soil, sandy clay soil,mixed with gravel and volcanic rock about 2 ft.deep,subsoil,hard clay .
	Timber,cedar and pinon pine.
	Undergrowth,sage brush .

Retracement Sub.T.51 S., R.7 W.-Continued.

- Chains A light growth of grass.
- Mountainous land, or land covered with dense undergrowth,
81.64 ebs.
- November 9, 1910.
- November 10, 1910.: At 7 h, 44 m a.m., l.m.t., I set off 38° 6' N., on the lat.arc; 16° 59' S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.19, 20, 29, and 30.
- Thence I run
S.89°48'W., on a retracement line betsecs.19 and 30.
Over mountainous land; through dense sage brush.
Asc.
- 18.40 Top of ridge, 300 ft.above cor., bears N:12°W.and S.12°-E.
Desc.
- 26.75 Bottom of hollow, 200 ft.below ridge, course S.10°.E.
Asc.
- 40.12 Fall 21 lks.S.of the $\frac{1}{4}$ sec.cor.betsecs.19 and 30, which is a gray sandstone, 8x10x8 ins., above ground, firmly set and mkd.and witnessed as described by the surveyor general.
I destroy the old cor.and re-establish it in the same place as follows:
Set an iron post, 3 ft.long, 1 in.in dia., 18 ins.in the ground, on rock bottom, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 19 in N half, and S 30 in S half;and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high,N.of cor.
- 42.10 Enter scattering timber, bears N.and S.
- 42.20 "ash, 20 lks.wide, 2 ft.deep, course S.30°E.
- 52.50 Begin abrupt ascent, bears N.20°W.and S.30°W.

Retracement Sub.T.31 S., R.7 W.-Continued.

Chains

- 64.00 Enter ledges, bears N.15°E.and S.
- 67.25 Top of ridge, 600 ft. above hollow, bears N.15°E.and S.15°W.
Leave ledges, bears N.15°E.and S.15°W.
Leave timber, bears N.15°E.and S.15°W.
Desc.abruptly.
- 79.43 Fall 142 lks.S.of the cor.of secs.19,24,25, and 30, on
W.bdy.of Tp., which is a granite stone, 10x10x10 ins., above
ground, firmly set, and mkd.and witnessed as described by
the surveyor general.
I destroy the old cor.and re-establish it in the same
place as follows:
Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the
ground, for cor.of secs.19,24,25, and 30,mkd.on brass cap
T 31 S in N half.
R 8 W S 24 in NW.
R 7 W S 19 in NE.
S 30 in SE.;and
S 25 in SW.quadrants;and raise a mound of stone,
2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor.
The course of the east half of this mile is therefore
N.89°54'W., 40.12 chs.and the west half is N.88°26'W.,
39.32 chs.
Land, mountainous very steep and rough.
Soil, sandy and clay loam about 1 ft.deep, and mixed with
with volcanic rock.Subsoil clay.
Timber, cedar and pinon pine.
Undergrowth, dense sage and scattering oak.
Good grass in patches.
Mountainous land, or land covered with dense undergrowth
79.44 chs.
November 10, 1910:At this cor.I set off 17°03'S., on the
decl.arc;and at 11 h 44 m a.m., l.m.t., I observe the sun
on the meridian, the resulting lat.is 38°06'N., which is
the proper lat.nearly.

Retracement West bdy.T.31 S.,R.7 W.

Retracement W.bdy.T.31 S.,R.7 W.

From the cor.of secs.19,24,25 and 30, just re-established
I run

North, on a retracement line betsecs.19 and 24.

40.46 Fall 26 lks.East of the $\frac{1}{4}$ sec.cor.betsecs.19 and 24,
which is a granite stone,8x10x8 ins.,above ground,firmlly
set, and mkd.and witnessed as described by the surveyor
general.

80.81 Fall 52 lks.East of the cor.of secs.13,18,19, and 24,
which is a stationary volcanic rock,4x2 $\frac{1}{2}$ x2 ft.above
ground,mkd.and witnessed as described by the surveyor
general.

North, on a retracement line betsecs.13 and 18.

40.32 Fall 33 lks.East of the $\frac{1}{4}$ sec.cor.betsecs.13 and 18
which is a granite stone,5x9x6 ins.,above ground,firmlly
set, and mkd.and witnessed as described by the surveyor
general.

81.00 Fall 70 lks.East of the cor.of secs.7,12,13, and 18,which
is a granite stone,10x8x6 ins.lying on the ground,mkd.
and witnessed as described by the surveyor general.

November 10,1910.

November 11,1910:At 8 h 44 m a.m.,l.m.t.,I set off 38°08'
N.,on the lat.arc;17°17'S.,on the decl.arc;and determine
a meridian with the solar,at the cor.of secs.7,12,13, and
18.

Thence I run

North, on a retracement line betsecs.7 and 12.

40.29 Fall 55 lks.East of the $\frac{1}{4}$ sec.cor.,betsecs.7 and 12,

Retracement West bdy.T.31 S.,R.7 W.-Continued.

Chains	which is a sandstone, 7x6x5 ins., above ground, firmly set and mkd.and witnessed as described by the surveyor general .This rock is undersize.
81.10	Fall 77 lks.East of the cor.of secs.1,6,7, and 12,which is a sandstone, 10x7x5 ins.,full size lying on top of the ground; this stone is undersize.. November 11,1910:At this cor.I set off $17^{\circ}20' S.$,on the decl.arc;and at 11 h 44 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is $38^{\circ}09' N.$,which is the proper lat.nearly.
39.55	Wall 38 lks.W.of the $\frac{1}{4}$ sec.cor.betsecs. 1 and 6. which is a sandstone,14x8x5 ins.,above ground,well set and mkd.and witnessed as described by the surveyor general.
88.00	Fall 199 lks.West of the closing cor.of Tp.,31 S.,Rs. 7 and 8 W.,which is a granite stone,10x7x7 ins.,above ground,firmlly set, and mkd.and witnessed as described by the surveyor general. This cor.is 23.20 chs.West of the Standard cor.of Tps.30 S.,Rs.7 and 8 W.,instead of 23.27 chs.reported in the old notes. This bdy.is out of limits in alinement and measurement and as there is no subdivision depending on it I decide to resurvey the bdy.commencing at the cor.of secs.19, 24,25, and 30.

November 11,1910.

Resurvey West bdy.T.31 S.,R.7 W.

November 15,1910:At 8 h 45 m a.m.,l.m.t.,I set off a $38^{\circ}06' N.$,on the lat.arc; $18^{\circ}21' S.$,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.

Resurvey West bdy.T.31 S., R.7 W.-Continued.

Chains	19, 24, 25, and 30.
	Thence I run
	North, on a re-survey line bet. secs. 19, and 24.
	Over mountainous land; through dense sage brush.
	Desc. gradually.
4.00	Bottom of swale, 25 ft. below cor., course S. 45° W.
	Asc.
16.00	Top of ridge, 375 ft. above swale, bears E. and W.
	Desc.
27.45	Bottom of hollow, 125 ft. below ridge, course NE.
	Asc.
27.45	Enter scattering timber, bears E. and W.
40.00	Fall 46 lks. S. and 26 lks. E. of $\frac{1}{4}$ sec. cor. heretofore described, which I destroy.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 24 in. W half and S 19 in E half; from which
	A cedar, 6 ins. dia., bears N. 67° 30' E., 42 lks. dist.. mkd. $\frac{1}{4}$ S 19 B T.
	A cedar, 6 ins. dia., bears N. 82° 30' W., 124 lks. dist.. mkd. $\frac{1}{4}$ S 24 B T.
47.50	Top of ridge, 100 ft. above hollow, bears NE and SW.
	Desc.
72.50	Bottom of hollow, 200 ft. below ridge, course SW.
	Asc.
80.00	Fall 52 lks. E. and 81 lks. South of the old cor., heretofore described, and which I now destroy.
	Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 13, 18, 19, and 24, mkd. on brass cap
	T 31 S in N half R 8 W S 13 in NW. R 7 W S 18 in NE. S 19 in SE.; and

Re-survey West bdy.T.31 S., R.7 W.-Continued.

Chains	S 24 in SW. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, rough and steep ridges and hollows covered with volcanic rock. Soil, clay loam mixed with rock, about 2 ft. deep, on subsoil of clay. Timber, scattering cedar and pinon pine. Undergrowth, dense sage brush. Good grass in patches. Mountainous land, or land covered with dense undergrowth 80.00 chs.
	North, on re-survey line bet. secs. 13 and 18. Over mountainous land; through dense sage brush. Asc.
17.10	Top of ridge, 150 ft. above cor., bears NW and SE. Desc.
19.50	Enter heavy cedar and pinon pine timber, bears E. and W.
22.00	Bottom of swale, 50 ft. below ridge, course S.50°E. Asc.
30.60	Top of ridge, 75 ft. above swale, bears N.70°W. and S.70°E. Desc.
40.00	Fall 113 lks. S. and 85 lks. E. of the old ¼ sec. cor., heretofore described, and which I destroy. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor.. mkd. on brass cap ¼ S 18 in W half and S 18 in E half; from which A pinon pine, 8 ins. dia., bears S.43°E., 28 lks. dist.. mkd. ¼ S 18 B T.
	A pinon pine, 6 ins. dia., bears N.64°30'W., 16 lks. dist.. mkd. ¼ S 13 B T.
58.30	Leave timber, bears E. and W.

Re-survey West hdy.C.51 S., R.7 T.-Continued.

Chaining

- 61.30 Foot of steep descent, 300 ft. below ridge, bears E. and W.
- 61.30 Duck, 20 lks. wide, 2 ft. deep, in bottom of broad hollow, 400 ft. below ridge, course S.30°E.
Ass. gradually.
- 79.60 Enter scattering cedar and pinon pine timber, bears NW and SE.
- 80.60 Fall 181 lks. South and 122 lks. East of the old cor., heretofore described. I destroy the old cor.
Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, mkd. on brass cap
T. 31 S in N half.
T. 8 W S 12 in NW.
T. 7 W S 17 in NE.
S 16 in SE.; and
S 13 in SW quadrants; from which
A cedar, 7 ins. dia., bears N.30°E., 100 lks. dist.
mkd. T 31 S R 7 W S 17 E T.
A cedar, 12 ins. dia., bears S.57°E., 86 lks.
dist., mkd. T 31 S R 8 W S 18 E T.
A pinon pine, 6 ins. dia., bears S.64°30'W., 134 lks.
dist., mkd. T 31 S R 8 W S 13 E T.
A cedar, 7 ins. dia., bears N.11°W., 128 lks.
dist., mkd. T 31 S R 8 W S 12 E T.
Land, rolling mountain gradual slopes covered with volcanic rock.
Soil, clay and sandy loam about 18 ins. deep, mixed with volcanic rock, Subsoil gravel and clay.
Timber, cedar and pinon pine.
Undergrowth, sage brush.
Cool grass for grazing.
Mountainous or heavily timbered land, or land covered with dense undergrowth, 60.60 chain.
- November 16, 1916. At this cor. I set off 38°24' S., on the

Re-survey W.bdy.T.31 S., R.7 W.-Continued.

Chains	decl.arc; and at 11 h 45 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $38^{\circ}08'N.$, which is the proper lat. nearly.
	North, on re-survey line bet.secs.7 and 12.
	Over rolling mountainous land; through scattering cedar and pinon pine timber and dense sage brush.
Desc.	
14.35	Leave timber, bears E. and W.
19.00	Bottom of swale, 20 ft. below cor., course S. $20^{\circ}W.$.
	Asc.
40.00	Fall 210 lks. South and 177 lks. East of the old cor., heretofore described., which I destroy. Set an iron post, 3 ft. long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 12 in W half and S 7 in E half; from which A cedar, 9 ins.dia., bears N. $53^{\circ}30'W.$, 72 lks. dist..mkd. $\frac{1}{4}$ S 12 B T.
	No other trees within limits; dig pits, 18x18x12 ins., N.and S.of post, 3 ft.dist.; and raise a mound of earth, $3\frac{1}{2}$ ft.base, 1 $\frac{1}{2}$ ft.high, W.of cor.
50.95	Enter heavy timber, bears NE and SW.
80.00	Fall 291 lks. South and 199 lks.E.of the cor.of secs.1, 8, 7, and 12, heretofore described, and which I destroy. Set an iron post, 3 ft. long, 3 ins.in dia., 24 ins.in the ground, for cor.of secs.1, 6, 7, and 12,mkd.on brass cap T 31 S in N half. R 8 W S 1 in NW. R 7 W S 6 in NE. S 7 in SE.;and S 12 in SW.quadrants;from which A cedar, 6 ins.dia., bears N. $24^{\circ}E.$, 30 lksk dist..mkd.T 31 S R 7 W S 6 B T.

Re-survey West bdy.T.31 S., R.7 W.-Continued.

Chains	<p>A pinon pine, 10 ins. dia., bears S.57°E., 37 lks. dist..mkd.T 31 S R 7 W S 7 B T.</p> <p>A pinon pine, 8 ins. dia., bears S.15°30'W., 70 lks dist..mkd.T 31 S R 8 W S 12 B T.</p> <p>A cedar, 10 ins. dia., bears N.57°15'W., 60 lks. dist..mkd.T 31 S R 8 W S 1 B T.</p> <p>Land, rolling mountainous with gradual slopes and broad hollows.</p> <p>Soil, rich sandy loam about 3 ft. deep, a few patches of rock running through the country. Subsoil, gravel and white clay.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage brush.</p> <p>Goôdrgrass for grazing.</p> <p>Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.</p>
	<p>North, on a re-survey line bet. secs. 1 and 6.</p> <p>Over rolling mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.</p> <p>Asc.gradually.</p>
19.50	Wash, 50 lks.wide, 2 ft. deep, course SW.
	Continued ascent.
33.70	Old road, bears NE and SW.
40.00	Fall 246 lks.S. and 161 lks.E. of the old $\frac{1}{4}$ sec.cor., which I destroy.
	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 1 in W half; and S 6 in E half; from which
	<p>A pinon pine, 10 ins. dia., bears S.83°30'E., 36 lks. dist..mkd.$\frac{1}{4}$ S 6 B T.</p> <p>A cedar, 12 ins. dia., bears S.74°W., 108 lks. dist..mkd.$\frac{1}{4}$ S 1 B T.</p>

Resurvey West bdy. T.31 S., R.7 W.-Continued.

Chains	
56.60	begin more abrupt ascent, bears N.30°E. and S.30°W.
90.91	Intersect the 6th Standard Parallel South, at the old closing cor. of Tps.31 S., Rs.7 and 8 west heretofore described., 23.20 chs. West of the cor. of Tps.30 S., Rs. 7 and 8 W.
	I destroy the old closing cor. and re-establish it in the same place as follows:
	Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for closing cor. of Tps.31 S., Rs.7 and 8 W., mkd. on brass cap
	T30 S R 7 R 8 W S 31 S 36 in N half. C C T 31 S in S half. R 7 W S 6 in SE.; and R 8 W S 1 in SW. quadrants; from which A cedar, 7 ins. dia., bears S.34°30'E., 183 lks. dist..mkd.T 31 S R 7 W S 6 B T. A pinon pine, 6 ins. dia., bears S.18°15'W., 98 lks. dist..mkd.T 31 S R 8 W S 1 B T.
	Land, rolling mountainous, sloping southward, sandstone formation with a few volcanic rocks scattered over the surface.
	Soil, sandy loam about 2 ft. deep, with subsoil of sandstone and gravel.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	No grass.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 90.91 chs.
	November 15, 1910.

Subdivision of T.31 S., R.7 W.

Survey commenced October 25, 1910: and executed with a Young and Sons light mountain transit, No. 7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah on August 6, 1910.

Note for test of instrument see notes of Retracement Sub. T.31 S., R.7 W., this book.

October 28, 1910: At 7 h 44 m a.m., l.m.t., I set off $38^{\circ}07'$ N., on the lat.arc; $12^{\circ}55' S.$, on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 14, 15, 22, and 23. heretofore described.

Thence I run

South, on a random line bet.secs. 22 and 23.

40.00 Set temp. $\frac{1}{2}$ sec.cor.

80.00 Set temp.sec.cor.

Thence I run

West, on a random line bet.secs. 22 and 27.

40.00 Set temp. $\frac{1}{2}$ sec.cor.

76.62 Intersect N.and S.line, 11 lks.N. of the cor.of secs.

21, 22, 27, and 28, heretofore described.

Thence I run

$N.89^{\circ}55'E.$, on a true line bet.secs. 22 and 27.

Over mountainous land; through heavy cedar and pinon pine timber.

Asc.

14.50 Top of ridge, 100 ft. above cor., bears N.and S.

Desc.

21.70 Bottom of hollow, 70 ft. below ridge, course N.

Asc.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{2}$ sec.cor.. mkd.on brass cap $\frac{1}{2}$ S. 22 in N half.

Subdivision of T.31 S., R.7 W.-Continued.

Chains	and S 27 in S half; from which
	A pinon pine, 10 ins. dia., bears N.14°W., 27 lks. dist..mkd. $\frac{1}{4}$ S 22 B T.
	A pinon pine, 5 ins. dia., bears S.63°W., 19 lks. dist..mkd. $\frac{1}{4}$ S 27 B T.
43.20	Top of spur, 125 ft. above hollow, bears N. and S.
	Desc.
53.90	Bottom of hollow, 75 ft. below spur, course N.
	Asc.
76.62	Intersect N. and S. line, at the temp.cor. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor.of secs. 22, 23, 26, and 27, mkd.on brass cap T 31 S S 22 in NW. R 7 W S 23 in NE. S 26 in SE.; and S 27 in SW. quadrants; from which A pinon pine, 5. ins. dia., bears N.42°E., 17 lks. dist..mkd.T 31 S R 7 W S 23 B T. A cedar, 8 ins. dia., bears S.46°E., 52 lks. dist..mkd.T 31 S R 7 W S 26 B T. A pinon pine, 7 ins. dia., bears S.23°30'W., 44 lks dist..mkd.T 31 S R 7 W S 27 B T. A cedar, 10 ins. dia., bears N.17°W., 15 lks. dist..mkd.T 31 S R 7 W S 22 B T. Land, rough and broken ridges and hollows. Soil, sandy clay about 2 ft. deep, 3rd rate, medium texture gravelly subsoil. Timber, cedar and pinon pine. Undergrowth, sage, oak, and mahogany. Light growth of grass. Mountainous or heavily timbered land, 76.62.chs. North, on a true line betsecs.22 and 23.

Subdivision of T.31 S., R.7 W.-Continued.

Chains	Over mountainous land; through heavy cedar and pinon pine timber, and dense sage and oak brush.
	Desc.
12.60	Bottom of swale, 50 ft. below cor., course NW.
	Asc.
13.60	Top of spur, 30 ft. above swale, bears NW and SE.
	Desc.
37.60	Bottom of swale, 20 ft. below spur, course W.
	Asc.
39.80	Top of spur, 20 ft. above swale, bears E. and W.
	Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 22 in W half and S 23 in E half; from which
	A pinon pine, 6 ins. dia., bears N. 82° E., 50 lks. dist.. mkd. $\frac{1}{2}$ S 23 B T..
	A pinon pine, 5 ins. dia., bears S. 38° W., 16 lks. dist.. mkd. $\frac{1}{2}$ S 22 B T..
42.00	Foot of descent, 30 ft. below spur, bears NE and SW.
	Enter valley.
80.00	The cor. of secs. 14, 15, 22, and 23.
	S. 42.00 chs. over rough mountainous country slopes and drains northwesterly. Soil, sandy clay about 1 ft. deep, gravel subsoil. Timber, cedar and pinon pine. Undergrowth, sage and oak brush, and mahogany. No grass.
	N. 38.00 chs. over nearly level valley gently sloping to the north. Soil, rich sandy loam; 3 ft. deep, mixed small iron stone cobbles. Subsoil, hard clay. Timber, cedar and pinon pine. Undergrowth, sage brush. No grass.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	October 28, 1910. At this cor. I set off 13°00' S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°07' N., which is the proper lat. nearly.

Subdivision of T.31 S., R.7 W. - Continued.

Chains

October 28, 1910.

October 29, 1910: At 1 h 44 m, p.m., l.m.t., I set off 38°08' N., on the lat.arc; 18°22' S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 11, 12, 13, and 14, described on page 11 this book.

Thence I run

South, on a random line bet.secs. 13 and 14.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.00 Set temp.cor.of secs. 13, 14, 23, and 24.

Thence I run

West, on a random line bet.secs. 14 and 23.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

82.60 Intersect N.and S.line, 581 lks.N.of the cor.of secs. 14, 15, 22, and 23, heretofore described.

The falling is out of limits; therefore I begin at the cor.of secs. 14, 15, 22, and 23 and run East

East, on a true line bet.secs. 14 and 23.

Over nearly level valley; through dense sage brush.

Asc.gently.

6.60 Leave valley, bears N.and S.

Asc.

10.30 Top of spur, 50 ft.above valley.bears NW and SE.

Desc.

13.40 Enter heavy cedar and pinon pine, bears N.and S.

leave dense and enter scattering sage brush, bears N.and S.

14.60 Bottom of swale, 200 ft.below spur, course NW.

Asc.

40.00 Set an iron post, 3 ft.long, 1.in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 14 in N half and S 23 in S half; from which

Subdivision of T.31 S., R.7 W.-Continued.

- Chains A cedar, 6 ins. dia., bears N.1°W., 22 lks.
 dist.. mkd. $\frac{1}{4}$ S 14 B T.
- A cedar, 8 ins. dia., bears S.53°W., 21 lks.
 dist.. mkd. $\frac{1}{4}$ S 23 B T.
- 40.70 Top of ridge, 125 ft. above hollow, bears N.15°E. and S.15°W.
 Desc.
- 43.10 Conglomerate ledge, 40 ft. high, bears N. and S.
- 49.60 Bottom of hollow, 150 ft. below ridge, course N.
 Asc.
- 72.50 Top of ridge, 60 ft. above hollow, bears NE and SW.
 Desc.
- 82.60 Intersect Temp. N. and S. line, 581 lks. South of the temp. cor. of secs. 13, 14, 23, and 24, set Oct. 26, 1910.
 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, and 14 (knowing from lines already run that this cor. will not be a cor. for secs. 23 and 24.) mkd. on brass cap
 T 31 S S 14 in NW.; and
 R 7 W S 13 in NE.; quadrants; from which
 A pinon pine, 10 ins. dia., bears N.1°E., 20 lks.
 dist.. mkd. T 31 S R 7 W S 13 B T.
- A cedar, 8 ins. dia., bears N.59°W., 29 lks.
 dist.. mkd. T 31 S R 7 W S 14 B T.
- Land, W. 6.60 chs. in nearly level valley through dense sage brush. Soil, sandy loam about 2 ft. deep. No timber.
 E. 76.00 chs. over rough mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
 Soil sandy and clay loam about 1 ft. deep mixed with volcanic rock. Subsoil, gravel. Timber, cedar and pinon pine. Good grass.
 Mountainous or heavily timbered land, or land covered with dense undergrowth, 82.60 chs.

October 29, 1910.

Subdivision of T.31 S., R.7 W.-Continued.

Chains

- November 12, 1910: At 8 h 44 m a.m., l.m.t., I set off $38^{\circ}07'$ N., on the lat.arc; $17^{\circ}33' S.$, on the decl.arc; and determine a meridian with the solar, at the cor.of secs.13 and 14. Thence I run North, on a true line betsecs.13 and 14. Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
- 7.10 Top of ridge, 80 ft. above cor., bears NE and SW.
Desc.
- 25.30 Head. of hollow, 150 ft. below ridge, course W.
- 30.00 Top of spur, 90 ft. above hollow, bears E. and W.
Desc.
- 34.10 Desc.abruptly over ledges, bears E. and W.
- 37.00 Bottom of canon, 100 ft. below spur, course W.
Leave ledges, bears E. and W.
Asc.
- 38.15 Road from Beaver to Panguitch, bears E. and W.
- 45.81 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 14 in W half and S 13 in E half; from which
A pinon pine, 9 ins.dia., bears S. 17° E., 6 lks.
dist.. mkd. $\frac{1}{4}$ S 13 B T.
A pinon pine, 10 ins.dia., bears S. 85° W., 95 lks.
dist.. mkd. $\frac{1}{4}$ S 14 B T.
- 46.60 Top of rocky ridge, 100 ft. above canon, bears E. and W.
51.10 Bottom of swale, 50 ft. below ridge, course W.
Asc.
- 58.35 Top of spur, 65 ft. above hollow, bears NW and SE.
Desc.
- 69.70 Bottom of hollow, 85 ft. below spur, course N. 30° W.
Asc.
- 76.90 Top of ridge, 100 ft. above hollow, bears NW and SE.
Desc.
- 85.81 The cor.of secs.11, 12, 13, and 14.
Land, mountainous and rough .
Soil, clay loam mixed with rock and gravel about 12 ins.

Subdivision of T.31 S., R.7 W.-Continued.

Chains	deep. Subsoil, gravel. Timber, heavy cedar and pinon pine . Undergrowth, sage brush . Good grass for grazing. Mountainous or heavily timbered land, 85.81 chs.
	November 12, 1910: At this cor. I set off 17°36'S., on the decl.arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian , the resulting lat. is 38°08'N., which is the proper lat.nearly.
	October 25, 1910, At 7 h 44 m a.m., l.m.t., I set off 38°04' N., on the lat.arc; 11°54' S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.35 and 36, Thence I run N.0°1'W., bet.secs.35 and 36. Over mountainous land; through heavy cedar and pinon pine timber. and scattering sage brush.
	Desc.
24.20	Road from Buckskin Valley to Parowan, bears E and W.
25.00	Wash, 10 lks.wide, 2 ft.deep, in bottom of hollow, 150 ft. below cor., course W.
	Asc.
34.50	Top of spur, 100 ft.above hollow, bears NW and SE.
	Desc.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 35 in W half and S 36 in E half;; from which A pinon pine, 6 ins.dia., bears S.38°30'E., 120 lks. dist.. mkd. $\frac{1}{4}$ S 36 B T.
	A pinon pine, 5 ins.dia., bears S.57°30'W., 78 lks. dist.. mkd. $\frac{1}{4}$ S 35 B T.
43.20	Bottom of hollow, 50 ft.below spur, course SE.
	Asc.
74.50	Top of spur, 60 ft.above hollow, bears NW and SE.

Subdivision of T.31 S., R.7 W.-Continued.

Chains	Desc.
80.00	<p>Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, mkd.on brass cap T 31 S 26 in NW. R 7 W S 25 in NE. S 36 in SE.; and S 35 in SW. quadrants; from which A cedar, 10 ins. dia., bears N.67°E., 55 lks. dist..mkd.T 31 S R 7 W S 25 B T. A cedar, 10 ins. dia., bears S.28°E., 182 lks. dist..mkd.T 31 S R 7 W S 36 B T. A pinon pine, 7 ins. dia., bears S.84°W., 111 lks. dist..mkd.T 31 S R 7 W S 35 B T. A cedar, 6 ins. dia., bears N.49°W., 269 lks. dist..mkd.T 31 S R 7 W S 26 B T.</p> <p>Land rough and mountainous slopes easterly and drains southeasterly.</p> <p>Soil, sandy clay loam about 2 ft. deep, with patches of conglomerate and lava rock running through it.</p> <p>Subsoil, gravel.</p> <p>Timber, cedar and pinon pine</p> <p>Undergrowth, oak, sage and buck brush.</p> <p>A very little grass.</p> <p>Mountainous or heavily timbered land, 80.00 chs.</p> <hr/> <p>East on a random line betsecs. 25 and 36.</p>
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.00	<p>intersect E.bdy.of Tp., 5.40 chs.N. of the cor.of secs. 30 and 31, pertaining to the township east, heretofore described.</p> <p>Set an iron post, 3 ft, long, 2 ins. in dia., 20 ins.in the., ground, on solid rock, and surrounded by mound of earth and stone, for closing cor.of secs. 25 and 36,mkd.on brass cap</p>

Subdivision of T.31 S., R.7 W.-Continued.

Chains	T 31 S in N half. C C R 6 W S 30 S 31 in E half. R 7 W S 25 in NW.; and S 36 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Thence I run West, on a true line bet. secs. 25 and 36. Over rolling mountainous land; through dense sage brush. Asc. Road from Beaver to Panguitch bears N. 10° W. and S. 10° E. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 25 in N half and S 36 in S half; and raise a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. Top of ridge, 100 ft. above $\frac{1}{4}$ sec. cor., bears N. 20° W. and S. 20° E. Desc. Bottom of hollow, 40 ft. below ridge, course S. Asc. Top of spur, 40 ft. above hollow, bears N. and S. Desc. Enter heavy cedar and pinon pine timber, bears NE and SE Bottom of hollow, 90 ft. below spur, course S. Asc. The cor. of secs. 25, 26, 35, and 36. Land, rolling mountains general slope and drainage south. Soil, sandy loam from 1 to 2 ft. deep, mixed with cobble rock. Subsoil, gravel. Timber, cedar and pinon pine. Undergrowth, sage and oak brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs. October 25, 1910: At this cor. I set off $11^{\circ}59' S.$, on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the
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Subdivision of T.31 S., R.7 W.-Continued.

- Chains meridian, the resulting lat. is $38^{\circ}05'N.$, which is the proper lat. nearly.
-
- N. $0^{\circ}1'W.$, bet. secs. 25 and 26.
- Over mountainous land; through heavy timber and scattering sage brush. Asc.
- 1.00 Bottom of swale, 20 ft. below cor., course N. $80^{\circ}E.$ Asc.
- 8.00 Top of spur, 30 ft. above cor., bears E. and W.
- Desc.
- 14.50 Bottom of hollow, 30 ft. below spur, course E.
- Asc.
- 32.40 Top of ridge, 200 ft. above hollow, bears E. and W.
- Desc.
- 32.50 Leave heavy and enter scattering timber, bears E. and W.
- Enter dense oak, buck, and sage brush, bears E. and W.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4} S 26$ in W half and $S 25$ in E half; from which
- A pinon pine, 5 ins. dia. bears S. $37^{\circ}E.$, 27 lks.
- dist.. mkd. $\frac{1}{4} S 25$ B T.
- A pinon pine, 5 ins. dia., bears N. $32^{\circ}W.$, 64 lks.
- dist.. mkd. $\frac{1}{4} S 26$ B T.
- 49.00 Bottom of hollow, 100 ft. below ridge, course NE.
- Asc.
- 52.00 Leave undergrowth, bears NE and SW.
- Enter heavy cedar and pinon pine timber, bears E. and W.
- Asc. over a series of conglomerate ledges, bears E. and W.
- 55.00 Top of spur, 50 ft. above hollow, bears N. $80^{\circ}E.$ and S. $80^{\circ}W.$.
- Desc.
- 61.50 Bottom of hollow, 40 ft. below spur, course SE.
- Asc.
- 65.00 Leave heavy and enter scattering timber, bears E. and W.
- 79.00 Top of ridge, 500 ft. above hollow, bears E. and W.

Subdivision of T.31 S., R.7 W.-Continued.

Chains	
	Desc. over ledges.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 23, 24, 25, and 26, mkd. on brass cap T 31 S S 23 in NW. R 7 W S 24 in NE. S 25 in SE.; and S 26 in SW. quadrants; from which A cedar, 30 ins. dia., bears N. 50° E., 50 lks. dist.. mkd. T 31 S R 7 W S 24 B T. A pinon pine, 5 ins. dia., bears S. 80° E., 40 lks. dist.. mkd. T 31 S R 7 W S 25 B T. A mahogany, 6 ins. dia., bears S. 80° W., 50 lks. dist.. mkd. T 31 S R 7 W S 26 B T. A mahogany, 4 ins. dia., bears N. 70° W., 40 lks. dist.. mkd. T 31 S R 7 W S 23 B T. Land, very rough and steep covered with rock and ledges. Soil, sandy loam from 6 ins. to 2 ft. deep, mixed with conglomeric rock .; 3rd rate. Subsoil, conglomerate rock. Timber, cedar and pinon pine. Undergrowth, sage oak, and buck brush and mahogany. A very little grass . Mountainous or heavily timbered land, or land covered woth dense undergrowth, 80.00 chs.
	October 25, 1910.
40.00	October 26, 1910: At 7 h 44 m a.m., l.m.t. I set off 38°06' N., on the lat. arc; 12°15' S., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 23, 24, 25, and 26. Thence I run East, on a random line bet. secs. 24 and 25 . Set temp. $\frac{1}{4}$ sec. cor.

Subdivision of T.31 S., R.7 W.-Continued.

Chains

- 80.14 Intersect E.bdy.of Tp., 5.43 chs. North of the cor.of secs. 19 and 30, pertaining to the Tp.east, hearetofore described.
Set an iron post, 3 ft.long, 2 ins.in dia., 18 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for closing cor.of secs.24 and 25. mkd.on brass cap T 31 S in N half.
C C R 6 W S 19 S 30 in E half.
R 7 W S 24 in NW.;and
S 25 in SW.quadrants;from which
A cedar, 7 ins.dia., bears N.86°W., 28 lks.
dist..mkd.T 31 S R 7 W S 24 B T.
A pinon pine, 10 ins.dia., bears S.82°W., 40 lks.
dist..mkd.T 31 S R 7 W S 25 B T.
Thence I run
West, on a true line betsecs.24 and 25.
Over mountainous land;through heavy cedar and pinon pine timber and scattering sage & oak brush.
Desc.
8.50 Bottom of hollow, 60 ft.below cor., course N.30°W.
Asc.
10.90 Top of spur, 30 ft.above hollow, bears N.20°W.and S.20°E.
Desc.
18.70 Bottom of hollow, 50 ft.below spur, course N.20°W.
Asc.
25.40 Top of spur, 25 ft.above hollow, bears N.20°W.and S.20°E.
Desc.
32.00 Road brom Beaver to Panguich, bears N.10°W.and S.10°E.
35.20 Bottom of hollow, 200 ft.below spur, course N.10°W.
Asc.
40.07 Set an iron post, 3 ft.long, 1 in.in dia., 19 ins.in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 24 in N half. and S 25 in S half;from which

Subdivision of T.31 S., R.7 W.-Continued.

- Chains A cedar, 4 ins. dia., bears N.20°W., 88 lks.
 dist..mkd. $\frac{1}{4}$ S 24 B T.
 A cedar, 8 ins. dia., bears S.25°W., 185 lks.
 dist..mkd. $\frac{1}{4}$ S 25 B T.
- 40.40 Top of spur, 35 ft. above hollow, bears NE and SW.
Desc.
42.40 Bottom of swale, 50 ft. below spur, course NE.
Asc.
73.90 Top of spur, 400 ft. above swale, bears NW and SE.
Desc. over ledges.
80.14 The cor. of secs. 23, 24, 25, and 26.
Land, rough and mountainous with steep slopes.
Soil, sandy and clay loam about 1 ft. deep, mixed with rock
3rd rate. Subsoil, gravel and conglomerate rock.
Timber. cedar and pinon pine.
Undergrowth, sage, oak, and mahogany.
A little good grass.
Mountainous or heavily timbered land, or land covered
with dense undergrowth, 80.14 chs.
October 26, 1910: At this cor. I set off 12°20'S., on the
decl. arc; and at 11 h 44 m a.m., l.m.t. I observe the sun
on the meridian, the resulting lat. is 38°06'N., which is
the proper lat. nearly.
-
- H.0°1'W., on a random line bet. secs. 23 and 24.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
80.00 Set temp.cor. pending the establishment of the cor.
of secs. 13, 14, 23, and 24.
Note: Later the closing was made and found to be as
follows:
79.20 Intersect E. and W. line, 3.40 chs. East of the cor. of secs.
13, & 14 heretofore described, see p. 40 these notes.
Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the

Subdivision of T.31 S., R.7 W.-Continued.

Chains

ground, for closing cor. of secs. 23 and 24, mkd. on brass cap
 C C T 31 S R 7 W S 13 S 14 in N half.
 S 24 in SE.; and
 S 23 in SW. quadrants; from which
 A pinon pine, 6 ins. dia., bears S.51°E., 47 lks.
 dist..mkd.T 31 S R 7 W S 24 B T.
 A pinon pine, 10 ins. dia., bears S.34°30'W., 55 lks.
 dist..mkd.T 31 S R 7 W S 23 B T.

Next day I run a true line bet. sec. 23 and 24,
 24, mkd. on S 23 to S 24, and N 23.

Thence I run

S 0°1'E., on a true line bet. secs. 23 and 24.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Desc

10.00 Bottom of hollow, 100 ft. below cor., course NE.

Asc.

25.65 Top of ridge, 80 ft. above hollow, bears N.35°E. and S.35°W.

Desc.

32.40 Bottom of hollow, 80 ft. below ridge, course N.35°E.

Asc.

39.20 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 23 in W half and S 24 in E half; from which

A cedar, 5 ins. dia., bears N.81°E., 77 lks.

dist..mkd. $\frac{1}{2}$ S 24 B T.

A cedar, 8 ins. dia., bears S.32°30'W., 19 lks.

dist..mkd. $\frac{1}{2}$ S 23 B T.

42.10 Leave heavy timber and enter scattering timber, bears E. and W.

Enter dense sage brush, bears E. and W.

55.70 Leave sage brush and enter heavy timber, bears E. and W.

79.00 Enter ledges, bears E. and W.

Subdivision of T.31 S., R.7 W.-Continued.

Chains

- 79.20 The cor. of secs. 23, 24, 25, and 26.
 Land, mountainous steep and rough covered with rock.
 Soil, sandy loam; about 3 ft. deep. Subsoil, rock and gravel.
 Timber, cedar and pinon pine.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous or heavily timbered land, or land covered
 with dense undergrowth, 79.20 chs.

October 26, 1910.

October 29, 1910: At 3 h 44 m p.m., l.m.t., I set off $38^{\circ}07'$ N., on the lat. arc; $13^{\circ}22'$ S., on the decl. arc; and determined a meridian with the solar, at the cor of secs. 13, 14, 23, and 24.

Thence I run

East, on a true line bet. secs. 13 and 24.

Note: Knowing from retrace ment made that the line will not intersect the east bdy. within limits; and that the line is out of limits in measurement.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage and oak brush.

Desc. through sandstone boulders.

11.75 Bottom of hollow, 150 ft. below cor., course N. 35° E.

Asc.

23.00 Top of spur, 75 ft. above hollow, bears N. 10° E. and S. 45° W.
 Desc.

25.20 Begin abrupt descent, bears N. and S.

29.70 Wash, 40 lks. wide, 5 ft. deep; in bottom of hollow, 100 ft.
 below ridge, course North.

Asc.

30.00 Road, from Beaver to Pangutich, bears N. and S.

Subdivision of T.31 S., R.7 W.-Continued.

Chains	
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 13 in N half and S 24 in S half; from which A cedar, 8 ins. dia., bears N.63°30'W., 51 lks. dist..mkd. $\frac{1}{4}$ S 13 B T. A cedar, 10 ins. dia., bears S.27°W., 16 lks. dist..mkd. $\frac{1}{4}$ S 24 B T.
48.00	Top of rocky ridge, 250 ft. above hollow, bears N.20°E. and S.20°W. Desc.
72.60	Bottom of hollow, 100 ft. below ridge, course S. Asc.
77.40	Top of conglomerate ledge, 20 ft. high, bears N. and S.
77.50	Top of spur, 100 ft. above hollow, bears N. and S. Desc.
✓ 83.67	Intersect E.bdy.of Tp., 445 lks. North of the cor.of secs. 18 and 19, pertaining to the Tp.east, heretofore described. Set an iron post, 3 ft. long, 2 ins. in dia., 19 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for closing cor.of secs.13 and 24,mkd.on brass cap T 31 S in N half. C C R 6 W S 18 S 19 in E half; R 7 W S 13 in NW.;and S 24 in SW.quadrants;from which A pinon pine, 6 ins. dia., bears N.85°W., 57 lks. dist..mkd.T 31 S R 7 W S 13 B T. A cedar, 6 ins. dia., bears S.26°W., 79 lks. dist..mkd.T 31 S R 7 W S 24 B T.
	Land, very high steep and rocky.
	Soil, loam mixed with rock.about 1 ft.deep.Subsoilgravel and rock.
	Timber, cedar and pinon pine.
	Undergrowth, oak, buck, and sage brush.
	A very little grass for grazing.

Subdivision of T.31 S., R.7 W.-Continued.

Chains	Mountainous or heavily timbered land, or land covered with dense undergrowth, 83.67 chs.
	October 29, 1910.
	November 12, 1910; At 2 h 44 m p.m., l.m.t., I set off 38°08' N., on the lat.arc; 17°37'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 11, 12, 13, and 14, heretofore described.
	Thence I run
	East on a true line bet. secs. 12 and 13.,
	Reasons already explained.
	Over mountainous land; through heavy cedar and pinon pine timber and scattering sage and oak brush.
	Desc.
.20	Bottom of hollow, 3 ft. below cor, course N. Asc.
6.75	Top of ridge, 100 ft. above hollow, bears N. and S. Desc.
15.90	Bottom of hollow, 100 ft. below ridge, course N.50°E. Asc.
26.65	Top of ridge, 150 ft. above hollow, bears N.65°W. and S.65° E. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{2}$ S 12 in N half and S 13 in S half; from which A pinon pine, 6 ins. dia., bears N.11°W., 48 lks. dist.. mkd. $\frac{1}{2}$ S 12 B T. A pinon pine, 8 ins. dia., bears S.20°E., 20 lks. dist.. mkd. $\frac{1}{2}$ S 13 E T.
52.05	Head of hollow, 100 ft. below ridge, course N.55°W. Asc.

Subdivision of T.31 S., R.7 W.-Continued.

Chains

- 55.70 Top of ridge, 100 ft. above hollow, bears N. and S.
Desc.
- 59.10 Bottom of hollow, 90 ft. below ridge, course N.
Asc.
- 62.50 Top of spur; 85 ft. above hollow, bears N. and S.
Desc.
- 67.60 Bottom of hollow, 90 ft. below spur, course N.
Asc.
- 82.65 Top of ridge, 100 ft. above hollow, bears NW and SE.
Desc.
- 83.68 Intersect E.bdy.of Tp., 10.45 chs. north of the cor.of secs.
7 and 18, pertaining to Tp.east, and heretofore describ-
ed.
Set an iron post, 3 ft. long, 2 ins. in dia., 19 ins. in the
ground, on rock, and surrounded by mound of earth and
stone, for closing cor.of secs.12 and 13, mkd.on brass cap
T 31 S in N half.
C C E 6 W S 7 S 18 in E half.
R 7 W S 12 in NW.; and
S 13 in SW.quadrants; from which
A pinon pine, 5 ins.dia., bears S.62°30'W., 13 lks.
dist..mkd.T 31 S R 7 W S 13 B T.
A cedar 8 ins.dia., bears N.34°30'W., 87 lks.
dist..mkd.T 31 S R 7 W S 12 B T.
Land, mountainous and broken, steep and rocky.
Soil, clay loam mixed with rock from 1 to 3 ft. deep, subsoil
gravel and rock.
Timber, cedar and pinon pine.
Undergrowth, sage and oak and buck brush.
Good grass for grazing.
Mountainous or heavily timbered land, 83.68 chs.

November 12, 1910.


 Instrumentman G.L.O.

Subdivision of T.31 S..R.7 W.-Continued.

Chains

Survey commenced November 12, 1910, and executed with a W. and L.E. Gurley Explorer's transit No. 957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

Note: For test of instrument see notes of Retracement 6th Standard Parallel south through Range 7 W.

November 12, 1910: At 8 h 44 m a.m., l.m.t., I set off $38^{\circ}08'$ N., on the lat. arc; $17^{\circ}33'$ S., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 1, 2, 11, and 12, heretofore described.

Note: Knowing from retracement made that the line bet. secs. 1 and 12 will not intersect the East bdy. within limits; and will be out of limits in distance

I run

East, on a true line bet. secs. 1 and 12.

Over rolling mountainous land; through heavy cedar and pinon pine timber.

Asc. gradually.

26.50 Old road, bears N. 20° W. and S. 20° E.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 1 in N half and S 12 in S half; from which

A pinon pine, 8 ins. dia., bears N. 55° W., 45 lks.
dist. mkd. $\frac{1}{2}$ S 1 B.T.

A pinon pine, 5 ins. dia., bears S. 41° W., 14 lks.
dist. mkd. $\frac{1}{2}$ S 12 B.T.

Subdivision of T.31 S., R.7 W.-Continued.

Chains

43.50 Top of ridge, 50 ft. above hollow, bears N.80°E. and S.80°W.

Desc.

48.00 Bottom of hollow, 25 ft. below ridge, course S.

Asc.

49.00 Top of ridge, 20 ft. above hollow, bears N.80°W. and S.80°

E.

Desc.

85.44 Intersect E.bdy.of Tp., 8.75 chs. North of the point for cor.of secs.5 and 7, and 9.11 chs. North of witness cor. to cor.of secs.6 and 7, pertaining to Tp.east and heretofore described.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor.of secs.1 and 12.mkd.on brass cap
T 31 S in N half.

C C R 6 W S 6 S 7 in E half.

R 7 W S 1 in NW.; and

S 12 in SW.quadrants; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W.of cor.

Land, rolling ridges and hollows with long gradual slopes
Soil, sandy loam from 1 to 3 ft. deep, rich and loose mixed
with some rock ;3rd rate.Subsoil, gravel.

Timber, cedar and pinon pine .

Undergrowth, sage brush.

No grass.

Mountainous or heavily timbered land, or land covered
with dense undergrowth, 85.44 chs.

November 12, 1910:At this cor.I set off 17°36'S., on the decl.arc.;and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat.is 38°09'N., which is the proper lat.nearly.

From the cor.of secs.1,2,11, and 12, heretofore described
I run

Subdivision of T. 31 S., R. 7 W.-Continued.

Chains	N.0°1'W., on a true line bet. secs. 1 and 2.
	Over rolling hills and hollows: through heavy timber and scattering sage brush.
7.00	Desc. abruptly, bears N.60°W. and S.60°E.
14.00	Foot of descent, 150 ft. below cor., bears N.60°W. and S.60°E.
	Enter bottom of broad hollow.
25.00	Wash, 20 lks. wide, 3 ft. deep, course SW.
26.90	Old road, bears NE and SW.
27.85	Leave bottom of hollow, bears NE and SW.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{2}$ S 2 in W half and S 1 in E half; from which
	A cedar, 6 ins. dia., bears N.39°W., 4 8 lks.
	dist.. mkd. $\frac{1}{4}$ S 2 B T.
	A pinon pine, 6 ins. dia., bears S.5°E., 63 lks.
	dist.. mkd. $\frac{1}{4}$ S 1 B T.
57.00	Top of ridge, 200 ft. above hollow, bears NE and SW.
	Desc.
71.50	Bottom of hollow, 90 ft. below ridge, course S.75°W.
	asc.
77.75	Top of spur, 90 ft. above hollow, bears N.75°E. and S.75°W. Desc.
80.00	Foot of descent, 40 ft. below spur, bears NE and SW. Enter valley
90.54	Intersect 6th Standard Parallel South, S.89°40' E., 8.64 'ahs from the standard $\frac{1}{4}$ sec.cor.on S.bdy.sec.35, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for closing cor.of sec. 1 and 2, mkd.on brass cap
	C C T 30 S R 7 W S 35 S 36 in N half.
	R 7 W S 1 in SE.; and
	T 31 S S 2 in S W quadrants; from which

Subdivision of T.31 S., R.7 W.-Continued.

Chains A cedar 6 ins.dia., bears S.73°E., 126 lks.
 dist..mkd.T 31 S R 7 W S 1 B T.
 A pinon pine, 5 ins.dia., bears S.72°W., 67 lks.
 dist..mkd.T 31 S R 7 W S 2 B T.
 Land, rolling ridges and hollows, drainage southwesterly.
 soil, sandy clay loam from 1 to 2 ft. deep, 2nd. rate.
 Subsoil, clay.
 Timber, cedar and pinon pine.
 Undergrowth, sage brush.
 A little grass.
 Mountainous or heavily timbered land, 90.34 chs.

November 12, 1910.

John P Stewart

Instrumentman G.L.O.

October 27, 1910: At 7 h 44 m a.m., l.m.t., I set off 38°05' N.,
 on the lat.arc; 12°35'S., on the decl.arc; and determine
 a meridian with the solar, at the cor.of secs. 25, 26, 35,
 and 36.

Thence I run

West, on a sectional correction line bet.secs. 26 and 35.

Over mountainous land; through heavy cedar and pinon pine
 timber and scattering sage brush.

Asc.

23.50 Top of spur, 200 ft. above cor., bears NW and SE.

Desc.

29.40 Bottom of hollow, 40 ft. below spur, course SE.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the
 ground, on bed rock, and surrounded by mound of earth and
 stone, for 1 sec.cor..mkd.on brass cap $\frac{1}{4}$ S 26 in N half
 and S 35 in S half; from which

Subdivision of T.31 S., R.7 W.-Continued.

Chains	A pinon pine, 14 ins. dia., bears N.19°E., 20 lks. dist..mkd. $\frac{1}{4}$ S 26 B T. A cedar, 6 ins. dia., bears S.24°W., 49 lks. dist..mkd. $\frac{1}{4}$ S 35 B T.
54.00	Top of spur, 200 ft. above hollow, bears NE and SW.
Desc.	
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 26, 27, 34, and 35, mkd.on brass cap T 31 S S 27 in NW. R 7 W S 26 in NE. S 35 in SE.; and S 34 in SW.quadrants; from which A cedar, 12 ins. dia., bears N.25°E., 27 lks. dist..mkd.T 31 S R 7 " S 26 B T. A pinon pine, 11 ins. dia., bears S.62°E., 11 lks. dist..mkd.T 31 S R 7 W S 35 B T. A pinon pine 12 ins. dia., bears S.69°W., 26 lks. dist..mkd.T 31 S R 7 W S 34 B T. A pinon pine, 6 ins. dia., bears N.62°W., 41 lks. dist..mkd.T 31 S R 7 W S 27 B T.
	Land, rough and steep ridges and hollows; slopes and drains southwesterly.
	Soil, sandy clay loam mixed with volcanic and conglomerate rock, from 4 ins. to 1 ft. deep. Subsoil, conglomerate rock.
	Timber, cedar and pinon pine.
	Undergrowth, sage, oak, and buck brush.
	Good grass in patches.
	Mountainous or heavily timbered land, \$0.00 chs.
	S.0°1'E., on a random line betsecs. 34 and 35.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.02	Intersect S.bdy.of Tp., 161 lks. East of the cor.of secs. 2, 3, 34, and 35, heretofore described.
	Set en iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the

Subdivision of T.31 S., R.7 W.-Continued.

- Chains ground, for closing cor. of secs.34 and 35, mkd.on brass cap
 C C T 32 S R 7 W S 2 S 3 in S half.
 T 31 S S 34 in NW.; and
 R 7 W S 35 in NE.quadrants; from which
 A pinon pine, 5 ins.dia., bears N.25°E., 40 lks.
 dist..mkd.T 31 S R 7 W S 35 B T.
 A pinon pine, 10 ins.dia., bears N.57°W., 36 lks.
 dist..mkd.T 31 S R 7 W S 34 B T.
 Note:I destroy all marks on the cor.of secs.2,3,34, and
 35 which pertain to secs.34 and 35.
 Thence I run
 N.0°1'W., on a true line betsecs.34 and 35.
 Over mountainous land;through heavy cedar and pinon pine
 timber and scattering sage ~~sage~~ and oak brush.
 Asc.
 7.00 Top of spur, 70 ft.above cor., bears N.50°W.and S.50°E.
 Desc.
 17.20 Road from Buckskin Valley to Parowan, bears E.and W.
 18.90 Wash 20 lks.wide, 2 ft.deep, in bottom of hollow, 150 ft.
 below spur, course W.
 Desc.
 34.60 Top of spur, 140 ft.above hollow, bears NE and SW.
 Desc.
 38.00 Bottom of swale, 20 ft.below spur, course SW.
 Asc.
 40.01 Set an iron post, 3 ft.long, 1 in.in dia., 18 ins.in the
 ground, on bed rock, and surrounded by mound of earth and
 stone, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 34 in W half
 and S 35 in E half;from which
 A cedar, 10 ins.dia., bears N.57°E., 28 lks.dist
 mkd. $\frac{1}{4}$ S 35 B T.
 A pinon pine, 10 ins.dia., bears S.60°W., 43 lks.
 dist..mkd. $\frac{1}{4}$ S 34 B T.
 44.70 Top of ridge, 60 ft.above swale,bears E.and W.
 Desc.

Subdivision of T.31 S., R.7 W.-Continued.

Chains 52.70	Bottom of hollow, 90 ft. below ridge, course W. Asc.
57.40	Top of spur, 40 ft. above hollow, bears N.75°E. and S.75°W. Desc.
63.50	Bottom of swale, 35 ft. below spur, course SW. Asc.
73.45	Top of spur, 75 ft. above hollow, bears N.80°E. and S.80°W. Desc.
80.02	The cor. of secs. 26, 27, 34, and 35. Land, steep and rough slopes westerly and drains southwest- erly. Soil, sandy loam about 1 ft. deep, mixed with granite and conglomerate rock. 3rd rate. Subsoil, gonglomerate rock. Timber, cedar and pinon pine . Undergrowth, oak and sage brush. A very little grass . Mountainous or heavily timbered land, 80.02 chs. October 27, 1910: At this cor. I set off 12°40' S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian the resulting lat. is 38°05' N., which is the proper lat. nearly.
S.89°40' W., on a random line bet. secs. 27 and 34.	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
82.00	Intersect N. and S. line, 10 lks. S. of the cor. of secs. 27, 28, 33, and 34, heretofore described. Thence I run N.89°44' E., on a true line bet. secs. 27 and 34. Over mountainous land; through heavy cedar and pinon pine timber. " Asc.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
8.00	Top of spur, 100 ft. above cor., bears NE and SW. Desc.
16.20	Bottom of Gulch, 125 ft. below spur, course SW. Asc.
36.40	Top of spur, 100 ft. above gulch, bears N.15°E. and S.15°W. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.. mkd. on brass cap $\frac{1}{2}$ S 27 in N half and S 34 in S half; from which A cedar, 9 ins. dia., bears N.48°E., 35 lks. dist.. mkd. $\frac{1}{2}$ S 27 B T. A pinon pine, 12 ins. dia., bears S.54°E., 19 lks. dist.. mkd. $\frac{1}{2}$ S 34 B T.
60.40	Bottom of hollow, 100 ft. below spur, course S.75°W. Asc.
82.00	The cor.of secs. 26, 27, 34, and 35. Land, mountainous; slopes and drains southwest. Soil, sandy clay loam ; 3rd rate. hard and dry . Subsoil, clay and conglomerate rock. Timber, cedar and pinon pine . Good grass for grazing. Mountainous or heavily timbered land, 82.00 chs.
	October 27, 1910.
	October 28, 1910: At 3 h 44 m p.m., l.m.t., I set off 38°05' N., on the lat.arc; 13°02'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 26, 27, 34, and 35. Thence I run N.0°01'W., on a random line bet.secs. 26 and 27. 40.00 Set temp. + $\frac{1}{2}$ sec.cor.

Subdivision of T.31 S., R.7 W.-Continued.

Chains 79.52	Fall 5.56 chs. East of the cor. of secs. 22, 23, 26, and 27. I therefore set temp.cor. for closing cor. and run From the cor. of secs. 22, 23, 26, and 27. East, on a random line bet. secs. 23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
85.70	Intersect N. and S. line, 70 lks. South of the cor. of secs. 23, 24, 25, and 26.; the falling is out of limits; therefore I begin at the cor. of secs. 23, 24, 25, and 26, and run West, on a true line bet. secs. 23 and 26. Over mountainous land; through scattering timber and dense undergrowth. Desc. along north face of steep rugged mountain over series of conglomerate ledges from 5 ft. to 20 ft. high.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 23 in N half and S 26 in S half; from which A pinon pine, 12 ins. dia., bears N. 65° W., 54 lks. dist.. mkd. $\frac{1}{4}$ S 23 B T.
	A pinon pine, 6 ins. dia., bears S. 5° W., 20 lks. dist.. mkd. $\frac{1}{4}$ S 26 B T.
41.00	Top of ridge, bears NE and SW. Desc. abruptly.
85.70	Intersect N. and S. line, 70 lks. North of the cor. of secs. 22, 23, 26, and 27, Meretofore described. Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for closing cor. of secs. 23 and 26. mkd. on brass cap T 31 S R 7 W in N half. C C S 22 S 27 in W half; S 23 in NE.; and S 26 in SE. quadrants; from which A pinon pine, 16 ins. dia., bears N. 34° E., 65 lks. dist.. mkd. T 31 S R 7 w S 23 B T.
	No other trees within limits; raise a mound of stone,

Subdivision of T.31 S., R.7 W.-Continued.

Chains	2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Note I destroy all marks on the cor. of secs. 22, 23, 26, and 27 which pertain to secs. 23 and 26. Land, very steep and precipitous ledges on the entire mile with steep north slope. Soil, black loam from 1 in. to 6 ins. deep. on solid rock. Timber, scattering cedar and pinon pine. Undergrowth, oak, sage, mahogany, and buck brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 85.70 chs.
80.22	Note: The random line run north bet. secs. 26 and 27, now intersects the East and west line as follows: intersect E. and W. line, 5.56 chs. East of the closing cor. of secs. 23 and 26, heretofore described. Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for closing cor. of secs. 26 and 27., mkd. on brass cap C CT 31 S R 7 W S 22 S 23 in N half. S 26 in SE.; and S 27 in SW. quadrants; from which A pinon pine, 10 ins. dia., bears S. 45° E., 36 lks. dist.. mkd. T 31 S R 7 W S 26 B-T. A pinon pine, 11 ins. in dia., bears S. 62° W., 43 lks. dist.. mkd. T 31 S R 7 W S 27 B-T. Note: I destroy the marks on the closing cor. of secs. 23 and 26 which pertain to sec. 26 and on the cor. of secs. 22 and 27 which pertain to sec. 27. Hence I run S. 0° 1'E., on a true line bet. secs. 26 and 27. Over rough mountainous land; through heavy cedar and pinon pine timber and scattering oak, sage and buck brush. Acc.

Subdivision of T.31 S., R.7 W.-Continued.

Chains 4.50	Top of spur, 100 ft. above cor., bears E. and W. Desc.
16.00	Bottom of swale, 50 ft. below spur, course N.45°W. Asc.
18.70	Top of spur, 30 ft. above swale, bears N.35°W. and S.35°E. Desc.
25.00	Bottom of hollow, 40 ft. below spur, course N.25°W. Asc.
39.20	Top of ridge, 175 ft. above hollow, bears N.W and SE. Desc.
40.11	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on rock, and surrounded by mound of stone and earth, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 27 in W half and S 26 in E half; from which A pinon pine, 12 ins. dia., bears N.60°E., 70 lks. dist.. mkd. $\frac{1}{4}$ S 26 B T. A pinon pine, 12 ins. dia. bears S.45°W., 67 lks. dist.. mkd. $\frac{1}{4}$ S 27 B T.
56.60	Ledge, 20 ft. high, bears N.45°E. and S.45°W.
60.75	Bottom of hollow, 150 ft. below ridge, course S.40°W. Asc.
67.50	Top of spur, 85 ft. above hollow, bears NE and SW. Desc.
78.20	Bottom of hollow, 85 ft. below spur, course W. Asc.
80.22	The cor. of secs. 26, 27, 34, and 35. Land, mountainous. Soil, sandy clay loam about 1 ft. deep, and mixed with rock and gravel; 3rd rate. and some beds of lava rock on surface. Subsoil, hard conglomerate rock. Timber, cedar and pinon pine. Undergrowth, sage, oak, and buck brush. Some good grass. Mountainous or heavily timbered land, 80.22 chs.

Subdivision of T.31 S., R.7 W.-Continued.

Chains

Dunby Stewart
Instrumentman G.L.O.

November 15, 1910: At 8 h 45 m a.m., l.m.t., I set off $38^{\circ}09'$ N., on the lat.arc; $18^{\circ}21' S.$, on the decl.arc; and determine a meridian with the solat, at: the cor.of secs.2,3,10, and 11.

Thence I run

N. $0^{\circ}1'W.$, on a true line betsecs.2 and 3.

Over gently rolling land in valley; through sage brush. Asc.gradually.

33.47 Enter heavy cedar and pinon pine timber, bears E.and W.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 20 ins.in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{4} S \frac{3}{4} in$ N half and $S \frac{1}{2} in$ E half; from which

A pinon pine, 9 ins.dia., bears $S.85^{\circ}E.$, 75 lks.
dist..mkd. $\frac{1}{4} S 2 B T.$

A cedar, 8 ins.dia., bears $N.33^{\circ}W.$, 135 lks.
dist..mkd. $\frac{1}{4} S 3 B T.$

44.80 Wood road, bears $N.75^{\circ}E.$ and $S.75^{\circ}W.$

47.55 Leave sage brush, bears E.and W.

Leave valley, bears NE and SW.

81.00 Top of spur, 65 ft.above valley, bears E.and W.

Desc.

82.90 Bottom of hollow, 30 ft.below spur, course E.

Asc.

89.75 Intersect 6th Standard Parallel South, 6.29 chs.S. $89^{\circ}46'$ E.of the standard $\frac{1}{2}$ sec.cor.on S.side sec.34, heretofore described.

Set an iron post, 3 ft.long, 2 ins.in dia., 20 ins.in the ground, on rock , and surrounded by mound of earth and stone, for closing cor.of secs.2 and 3 mkd.on brass cap

Subdivision of T.31 S., R.7 W. Continued.

Chains	<p>S C T 30 S R 7 W S 34 S 35 in N half. R 7 W S 2 in SE.; and T 31 S S 3 in SW. quadrants; from which A cedar, 6 ins. dia., bears S.71°30'E., 26 lks. dist.. mkd. T 31 S R 7 W S 2 B T. A cedar, 5 ins. dia., bears S.38°W., 47 lks. dist.. mkd. T 31 S R 7 W S 3 B T.</p> <p>S.47.55 chs. in nearly level valley sloping gently south east. Soil, red sandy loam about 8 ft. deep, mixed with some patches of cobble rock. Subsoil, clay . and gravel. Timber, cedar and pinon pine . Undergrowth, sage brush.</p> <p>N.42.20 chs. over mountainous land with steep slopes and covered with rock. Soil, sandy loam about 2 ft. deep, and mixed with cobble rock and sandstone. Gravelly subsoil. Timber, cedar and pinon pine. A very little grass.</p> <p>Mountainous or heavily timbered land, or land covered with dense undergrowth, 89.75 chs.</p> <p>November 15, 1910: At this cor. I set off 18°24'S., on the decl. arc; and at 11 h 45 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°09'N., which is the proper lat. nearly.</p> <hr/> <p>From the cor. of secs. 3, 4, 9, and 10, heretofore described. I run N.0°2'W., on a true line bet. secs. 3 and 4. Over mountainous land; through heavy cedar and pinon pine timber and scattering undergrowth . Desc. 1.30 Begin more abrupt descent, bears E. and W. 15.00 Foot of descent, 200 ft. below cor., bears N.75°E. and S. 75°W. Enter bottom of broad hollow.</p>
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Subdivision of T.31. S., R.7. W.-Continued.

Chains	
18.45	Wood road, bears N.75°E.and S.75°W.
35.50	Leave hollow, bears E.and W. Asc.
40.00	Set an iron post, 3 ft.long, 1 in.in dia. 18 ins.in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 4 in W half and S 3 in E half;from which A cedar, 6 ins.dia., bears N.73°E., 53 lks. dist..mkd. $\frac{1}{4}$ S 3 B T. A pinon pine, 5 ins.dia., bears S.37°W., 83 lks. dist..mkd. $\frac{1}{4}$ S 4 B T.
47.35	Top of ridge, 140 ft.above hollow, bears NW and SE. Desc.
55.20	Bottom of hollow, 100 ft.below ridge, course S.70°E. Asc.
80.30	Top of ridge, 100 ft.above hollow, bears N.65°E.and S.65°W. Desc.
81.15	Bottom of hollow, 85 ft.below ridge, course E. Asc.
90 81	Intersect 5th Standard Parallel South, 6.17 chs.S.89°20' E., of the $\frac{1}{4}$ sec.cor., on S.bdy.sec.33, heretofore described. Set an iron post, 3 ft.long, 2 ins.in dia., 20 ins.in the ground, on solid rock, and surrounded by mound of earth and stone for closing cor.of secs.3 and 4,mkd.on brass cap C C T 30 S R 7 W S 33 S 34 in N half. R 7 W S 3 in SE.;and T 31 S S 4 in SW.quadrants;from which A pinon pine, 5 ins.dia., bears S.17°E., 62 lks. dist..mkd.T 31 S R 7 W S 3 B T. A cedar, 5 ins.dia., bears S.15°W., 76 lks. dist..mkd.T 31 S R 7 W S 4 B T.

Subdivision of T.31 S., R.7 W.-Continued.

Chains

Land, mountainous somewhat rolling with gradual slopes.
drains southeasterly.
Soil, sandy loam; from 1 to 2 ft. deep, mixed with coarse
gravel. Hard clay subsoil.
Timber, heavy cedar and pinon pine timber.
Undergrowth, oak, and sage brush.
Good grass for grazing.
Mountainous ~~be~~ heavily timbered land, 90.81 chs.

November 15, 1910.

November 16, 1910: At 8 h 45 m a.m. m.m.t., I set off 38°08' N., on the lat.arc; 18°36' S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 8, 9, 16, and 17. Heretofore described.

Thence I run

North, on a random line bet.secs. 8 and 9.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.00 Set temp.cor.of secs. 4, 5, 8, and 9.

Thence I run

East, on a random line bet.secs. 4 and 9.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

76.61 Intersect N.and S.line, 112 lks. South of the cor.of secs. 3, 4, 9, and 10, heretofore described. the falling is out of limits; therefore I begin at the cor.of secs. 3, 4, 9, and 10.

Thence I run

West, on a true line bet.secs. 4 and 9.

Over mountainous land; through scattering timber and dense sage brush.

Asc.

12.60 Top of ridge, 20 ft. above cor., bears N.50°W. and SE.

Desc.

21.55 Bottom of swale, 65 ft. below ridge, course S.

Subdivision of T.31 S., R.7 W.-Continued.

Chains	
	Asc.
22.10	Leave timber, bears N.and S.
32.05	Top of rocky spur, 100 ft. above swale, bears NE and SW. Enter scattering timber, bears NE and SW. Desc.
39.50	Bottom of hollow, 50 ft. below ridge, course S.30°E. Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for & sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 4 in N half and S 9 in S half; from which A pinon pine, 6 ins. dia., bears E.69°E 14 lks. dist..mkd. $\frac{1}{4}$ S 4 B T. A cedar, 10 ins. dia., bears S.50°E., 85 lks. dist..mkd. $\frac{1}{4}$ S 9 B T.
46.10	Top of ridge, 80 ft. above hollow, bears N.and S. Desc.
53.70	Bottom of hollow, 65 ft. below ridge, course S. Asc.
57.30	Top of spur, 50 ft. above hollow, bears N.20°W.and S.20°E. Desc.
68.30	Bottom of hollow, 90 ft. below spur, course SW70°E. Asc.
76.61	Intersect Random N.and S.line, 112 lks. North of the temp cor.of secs.4,5,8, and 9. At the intersection I Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor.of secs.4,5,8, and 9,mkd.on brass cap T 31 S S 5 in NW. B 7 W S 6 in NE. S 9 in SE.;and S 8 in S W.quadrants;from which A cedar, 8 ins. dia., bears N.87°E., 30 lks. dist..mkd.T 31 S., R.7 W S 4 B T. A pinon pine.10 ins. dia., bears S.53°E., 45 lks. dist..mkd.T 31 S R 7 W S 9 B T. A pinon pine, 10 ins. dia., bears S.78°W., 50 lks.

Subdivision of T.31 S., R.7 W.-Continued.

Chains	mkd.T 31 S R 7 W S 8 B T. A cedar, 7 ins dia., bears N.38°30'W., 51 lks. dist..mkd.T 31 S R 7 W S 8 B T.
	Land, mountainous .
	Soil, sandy loam about 2 ft. deep; 2nd rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 76.61 chs.
	South, on a true line bet. secs. 8 and 9.
	Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
	Asc.
10.00	Top of ridge, 200 ft. above cor., bears E. and W.
	Desc.
16.00	Bottom of hollow, 50 ft. below ridge, course SE.
	Asc.
18.90	Top of ridge, 110 ft. above hollow, bears NW and SE.
	Desc.
35.50	Bottom of hollow, 150 ft. below ridge, course South and comes from N.50°W.
41.12	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd.on brass cap $\frac{1}{4}$ S 8 in W half. and S 9 in E half; from which A pinon pine, 5 ins. dia., bears S.57°E., 178 lks. dist..mkd. $\frac{1}{4}$ S 9 B T. A cedar, 10 ins. dia., bears S.50°W., 165 lks. dist..mkd. $\frac{1}{4}$ S 8 B T.
51.35	Leave hollow, course SW. comes from North; asc.
58.00	Top of spur, 60 ft. above hollow, bears E. and W. Desc.

Subdivision of T.51 S., R.7 W.-Continued.

Chinas

62.00 Bottom of hollow, 75 ft. below spur, course S.60°E.

Asc.

65.50 Top of spur, 25 ft. above hollow, bears E. and W.

Desc.

67.60 Bottom of hollow, 30 ft. below spur, course S.15°W.

Asc.

72.80 Top of spur, 30 ft. above hollow, bears E. and W.

Desc.

75.30 Bottom of hollow, 40 ft. below spur, course S.75°E.

Asc.

75.85 Old road, bears N.70°W. and S.75°E.

75.95 Ascend abruptly, bears N75°W. and S.75°E.

81.12 The cor. of secs. 8, 9, 16, and 17.

Land, mountainous rough and rocky.

Soil, sandy loam from 1 to 3 ft. deep, poor and dry.

Subsoil, gravel.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Patches of grass.

Mountainous or heavily timbered land, 81.12 chs.

November 16, 1910: At the noon hour the sky is overcast and solar observations are impossible..

N.03° W., on a true line bet. secs. 4 and 5.

Over mountainous land; through heavy cedar and pinon pine timber, and scattering sage brush and oak brush.

Desc.

5.50 Bottom of hollow, 50 ft. below cor., course S.70°E.

Asc.

26.00 Top of spur, 125 ft. above hollow, bears N.15°E. and S.15°W.

Desc.

55.10 Bottom of swale, 40 ft. below spur, course S.5°W.

Asc.

Subdivision of T.31 S., R.7 W.-Continued.

Chains	
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 5 in W half and S 4 in E half; from which A pinon pine, 6 ins. dia., bears S.38°W., 41 lks. dist.. mkd. $\frac{1}{2}$ S 5 B T. A cedar, 10 ins. dia., bears S.50°E., 22 lks. dist.. mkd. $\frac{1}{2}$ S 4 B T.
52.50	Top of ridge, 200 ft. above hollow, bears N.70°W. and S.70° E. Desc.
56.80	Bottom of hollow, 100 ft. below ridge, course S.60°E. Asc.
61.00	Foot of conglomerate ledge, 100 ft. high, bears NE. and SW. Thence over ledges.
91.18	Intersect 6th Standard Parallel South, 9.30 chs S.88° 43' E., of the $\frac{1}{4}$ standard cor. on S. side sec. 32, heretofore described. Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for closing cor. of secs. 4 and 5, mkd. on brass cap G C T 30 S R 7 W S 32 S 33 in N half R 7 W S 4 in SE.; and T 31 S S 5 in SW. quadrants; from which A pinon pine, 7 ins. dia., bears S.80°E., 80 lks. dist.. mkd. T 31 S R 7 W S 4 B T. No other tree with in limits; raise a mound. of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Land, mountainous very steep and rugged. Soil, sandy loam from 6 ins. to 2 ft. deep, subsoil, clay and rock. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, 91.18 chs.

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Subdivision of T. 31 S., R. 7 W. - Continued.

Chains.

November 16, 1910.

John R Stewart
Instrumentman G.L.O.

November 16, 1910: At 8h 45m a.m.l.m.t., I set off 38° 07'N.on the lat.arc; 18° 36'S.on the decl.arc; and determine a meridian with the solar at the cor.of secs. 17,18,19, and 20. Thence I run

West on a random line betsecs.18 and 19,

40.00 Set temp. $\frac{1}{4}$ sec.cor.

78.17 Intersect W.bdy,df Tp.54 lks.N.of the cor.of secs.13,18, 19, and 24, heretofore described.

The falling is out of limits; therefore I

Set an iron post 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for closing cor.of secs.18 and 19, mkd.on brass cap

T 31 S in N.half,

CCR 8 W S 13 S 24 in W.half,

R 7 W S 18 in NE.; and

S 19 in SE.quadrants; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high E.of cor.

Note: I destroy all the marks on the cor.of secs.13,18, 19, and 24, which pertain to sections 18 and 19.

Thence I run

East on a true line betsecs.18 and 19,

Over mountainous land; through dense sagebrush. Asc.

.55 Top of spur, 50 ft.above cor., bears N.and S. Desc.

19.20 Bottom of hollow, 75 ft.below spur, course SW.

Asc.

28.00 Enter scattering timber, bears NW. and SE.

34.30 Top of ridge, 120 ft.above hollow, bears NE. and SW.

Desc.

38.17 Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the

Subdivision of T. 31 S., R. 7 W. - Continued.

Chaine.

ground, for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 18 in N. half, and S 19 in S.half; from which

A pinon pine, 7 ins.dia., bears N.8°20'E.102 lks.dist., mkd. $\frac{1}{4}$ S 18 B T

No other trees within limits; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N.of cor.

48.65 Bottom of hollow, 120 ft. below ridge, course S.20°W.

Asc.

53.50 Top of spur, 40 ft.above hollow, bears N.and S. Desc.

62.30 Bottom of hollow, 50 ft.below spur, course S.14°W. Asc.

69.70 Top of ridge, 50 ft.above hollow, bears N.and S. Desc.

78.17 The cor.of secs.17,18,19, and 20.

Land, mountainous and rough slopes to the south.

Soil, black sandy loam, mixed with volcanic rock, about 2 ft.deep, hard clay subsoil.

Timber, cedar and pinon pine, scattering.

Undergrowth, dense sagebrush. Good grass for grazing.

Mountainous land, or land covered with dense undergrowth
78.17 chs.

North on a random line betsecs.17 and 18,

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.00 Set temp.cor.of secs.7,8,17, and 18. Thence I run

East on a random line betsecs.8 and 17,

40.00 Set temp. $\frac{1}{4}$ sec.cor.

78.96 Intersect N.and S.line 151 lks.South of the cor.of secs. 8,9,16, and 17, heretofore described.

The falling is out of limits; therefore I commence at the cor.of secs.8,9,16, and 17. Thence I run

West on a true line betsecs.8 and 17,

Over mountainous land; through heavy timber and scattering sagebrush.

Ascend.

Subdivision of T.31.S.,R.7.W. Continued.

Chains

- 2.80 Top of spur, 60 ft. above cor., bears N. and S.
Desc. abruptly.
- 24.00 Bottom of hollow, 200 ft. below spur; course NE.
Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 8 in N half and S 17 in S half; from which
A pinon pine, 9 ins. dia., bears N. 15° W., 10 lks.
dist. mkd. $\frac{1}{4}$ S 8 B.T.
- A pinon pine, 8 ins. dia., bears S. 8° W., 29 lks.
dist. mkd. $\frac{1}{4}$ S 17 B.T.
- 64.30 Top of ridge, 600 ft. above hollow, bears N. and S.
Desc.
- 78.96 Intersect Random N. and S. line, 151 lks. North of the temp cor. of secs. 7, 8, 17, and 18. At the intersection I Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for cor. of secs. 7, 8, 17, and 18, mkd. on brass cap T 31 S S 7 in NW.
R 7 W S 8 in NE.
S 17 in SE.; and
S 18 in SW. quadrants; from which
A pinon pine, 4 ins. dia., bears N. 30° E., 59 lks.
dist. mkd. T 31 S R 7 W S 8 B.T.
A cedar, 7 ins. dia., bears S. 61° E., 160 lks.
dist. mkd. T 31 S R 7 W S 17 B.T.
A pinon pine, 8 ins. dia., bears S. 29° W., 67 lks.
dist. mkd. T 31 S R 7 W S 18 B.T.
A pinon pine, 5 ins. dia., bears N. 20° W., 33 lks.
dist. mkd. T 31 S R 7 W S 7 B.T.
- Land, rough and mountainous slopes northeast on E. 64.30 chs. and Westerly on W. 14.66 chs.
Soil, sandy clay mixed with lava rock. hard clay sub-soil.

Subdivision T.31.S., R.7 W.-Continued.

Ghains

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 78.96 chs.

November 16, 1910: At the noon hour the sky is overcast and solar observations are impossible.

South, on a true line bet. secs. 17 and 18.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Desc.

6.40 Bottom of hollow, 50 ft. below cor., course W.

Asc.

12.90 Top of spur, 60 ft. above hollow, bears E. and W.

Desc.

16.20 Bottom of hollow, 60 ft. below spur, course N. 80° W.

Asc.

29.80 Top of ridge, 230 ft. above hollow, bears N. 35° E. and S. 35° W.

Desc.

41.51 Set an iron post, 3 ft. long, 1 in. in dia.; 20 ins. in the ground, on soiled rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 18 in W half and S 17 in E half.; from which

A pinon pine, 5 ins. dia., bears N. 82° E., 25 lks.
dist.. mkd. $\frac{1}{4}$ S 17 B T.

A pinon pine, 8 ins. dia., bears N. 30° W., 132 lks.
dist.. mkd. $\frac{1}{4}$ S 18 B T.

81.51 The cor. of secs. 17, 18, 19, and 20.

Land, mountainous.

Soil sandy loam mixed with rock. 2 ft. deep, medium texture. clay subsoil.

Timber, cedar and pinon pine.

Subdivision of T.31 S., R.7 W.-Continued.

Chains

- Undergrowth, sage brush.
Good grass for grazing.
Mountainous or heavily timbered land, 81.51 chs.

November 16, 1910.

Darby Stewart

Instrumentman G.L.O.

November 17, 1910: At 8 h 45 m a.m., l.m.t., I set off 38°08' N., on the lat.arc; 18°51' S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 7, 8, 17, and 18.

Note: Knowing that a closing cor. is necessary on W.bdy of Tp.

I run

West, on a true line betsecs. 7 and 18.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Desc.

22.50 Bottom of hollow, 200 ft. below cor., course SW.

Asc.

31.00 Top of spur, 100 ft. above hollow, bears NE and S. 40°W.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 7 in N half and S 18 in S half; from which

A cedar, 5 ins. dia., bears N. 45°E., 56 lks.

dist.. mkd. $\frac{1}{4}$ S 7 B.T.

A cedar, 7 ins. dia., bears S. 79°E., 42 lks.

dist.. mkd. $\frac{1}{4}$ S 18 B.T.

42.45 Bottom of hollow, 90 ft. below spur, course S.

Asc. gradually.

66.00 Top of spur, 20 ft. above hollow, bears N. and S.

Desc.

Subdivision of T.31 S., R.7 W.-Continued.

Chains

78.08 Intersect W.bdy.of Tp., 204 lks. North of the cor.of secs 7, 12, 13, and 18, heretofore described.

Set an iron post ,3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.7 and 18,mkd.on brass cap T 31 S in N half.

C C R 8 W S 12 S 13 in W half.

R 7 W S 7 in NE.;and

S 18 in SE.;quadrants; from which

A cedar, 14 ins.dia., bears N.26°E., 233 lks.

dist..mkd.T 31 S R 7 W S 7 B T.

A cedar, 16 ins.dia., bears S.47°E., 131 lks.

dist..mkd., T 31 S R 7 W S 18 B T.

Note:I destroy all marks on the cor.of secs.7,12,13, and 18, which pertain to secs.7 and 18.

Land, rolling mountains with general south slope and drainage..

Soil, sandy loam mixed with rock;about 18 ins.deep,

Subsoil, clay.

Timber, cedar and pinon pine.

Undergrowth, sage brush..

Good grass for grazing.

Mountainous land,or heavily timbered land,or land covered with dense undergrowth, 78.08 zhs.

North on a random line betsecs.7 and 8.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.00 Set temp.cor.of secs.5,6,7, and 8.

Thence I run

East, on a random line betsecs.5 and 8.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.02 Intersect N.and S.line,133 lks.South of the cor.of secs 4,5,6, and 9.

The falling being out of limits;I begin at the cor.of

Subdivision of T 31 S.R.7 W.-Continued.

Chains	secs.4,5,8, and 9. Thence I run West, on a true line bet. secs.5 and 8. Over mountainous land; through heavy cedar and pinon pine timber, and scattering sage and oak brush. Asc. 7.80 Top of spur, 150 ft. above cor. course N.15°W. and S.15°E. Desc. 17.00 Bottom of hollow, 200 ft. below ridge, course S. Asc. abruptly. 32.40 Top of spur, 350 ft. above hollow, bears N.30°W. and S.30°E. Desc. 37.35 Bottom of hollow, 90 ft. below spur, course SE. Asc. abruptly. 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 5 in N half and S 8 in S half; from which A pinon pine, 8 ins. dia., bears N.20°W., 31 lks. dist.. mkd. $\frac{1}{4}$ S 5 B.T. A pinon pine, 10 ins. dia., bears S.20°W., 18 lks. dist.. mkd. $\frac{1}{4}$ S 8 B.T. 45.00 Top of spur, 150 ft. above hollow, bears NW and SE. Desc. 54.00 Bottom of hollow, 100 ft. below spur, course SE. Asc 65.20 Top of ridge, 200 ft. above hollow, bears N.10°E. and S.10°W. Desc. 72.00 Point projecting from ridge, 30 ft. high, bears NE and SW. 77.20 Bottom of hollow, 200 ft. below ridge, course S.20°W. Asc. 79.02 Intersect random line 153 lks. north of the temp. cor. of secs. 5, 6, 7, and 8. At the intersection I Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the
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Subdivision of T.31 S., R.7 W.-Continued.

Chains ground, on rock, and surrounded by mound of earth and stone,

for cor. of secs. 5, 6, 7, and 8, mkd. on brass cap

T 31 S 6 in NW.

E 7 W S 5 in NE.

S 8 in SE.; and

S 7 in SW. quadrants; from which

A pinon pine, 5 ins. dia., bears N.E., 91 lks.

dist.. mkd. T 31 S R 7 W S 5 B T.

A cedar, 8 ins. dia., bears S. 75° E., 85 lks.

dist.. mkd. T 31 S R 7 W S 8 B T.

A pinon pine, 8 ins. dia., bears S. 52° W., 15 lks.

dist.. mkd. T 31 S R 7 W S 7 B T.

A pinon pine, 10 ins. dia., bears N. 28° W., 64 lks.

dist.. mkd. T 31 S R 7 W S 6 B T.

Land, mountainous very steep and high; slopes southerly
and drains southerly.

Soil, sandy clay loam medium texture about 1 ft. deep,
mixed with gravel; Subsoil, gravel and lava rock.

Cedar and pinon pine timber.

Undergrowth, sage brush.

Good grass in patches.

Mountainous or heavily timbered land, 79.02 chs.

November 17, 1910: At this cor. I set off 18° 54' S., on the
decl. arc; and at 11 h 45 m a.m., l.m.t., I observe the sun
on the meridian, the resulting lat. is 38° 09' N., which is
the proper lat. nearly.

South, on a true line bet. secs. 7 and 8.

Over mountainous land; through heavy cedar and pinon pine
timber.

Dense.

5.00 Bottom of hollow, 30 ft. below cor., course SW.

As.

5.00 Top of spur, 30 ft. above hollow, bears NE and SW.

Subdivision of T.31 S., R.7 W.-Continued.

Chains	Desc.
15.00	Bottom of hollow, 100 ft. below spur, course SW. Asc.
18.20	Road, bears E. and W.
31.00	Top of spur, 300 ft. above hollow, bears E. and W. Desc.
✓ 41.33	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 7 in W half and S 8 in E half; from which A pinon pine, 5 ins. dia., bears S.45°E., 27 lks. dist..mkd. $\frac{1}{4}$ S 8 B T. A pinon pine, 4 ins. dia., bears N.80°W., 46 lks. dist..mkd. $\frac{1}{4}$ S 7 B T.
50.30	Bottom of hollow, 400 ft. below spur, course SW. Asc.
64.10	Top of spur, 50 ft. above hollow, bears E. and W. Desc.
67.00	Bottom of hollow, 100 ft. below ridge, course W. Asc.
76.20	Top of spur, 90 ft. above hollow, bears E. and W. Desc.
✓ 81.33	The cor. of secs. 7, 8, 17, and 18. Land, rough and mountainous ; slopes westerly . Soil, sandy loam about 1 ft. deep, mixed with coarse gravel. Clay and gravel subsoil. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, 81.33 chs.
	November 17, 1910.
	November 18, 1910: At 8 h 45 m a.m., l.m.t., I set off 38°09' N., on the lat. arg. 19°06'S., on the decl. arc; and determine

Subdivision of T.31 S., R.7 W.-continued.

Chains	a meridian with the solar, at the cor. of secs. 5, 6, 7, and 8. For reasons already explained I run West, on a true line bet. secs. 6 and 7/ Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush. Desc. 2.20 Top of spur, 20 ft. above cor., bears NE and SW. Desc. 8.20 Bottom of hollow, 100 ft below spur, course SW. Asc. 16.50 Top of spur, 100 ft. above hollow, bears N.40°E. and S.40°W Desc. 27.50 Bottom of hollow, 90 ft. below spur, course SW. Asc. 30.00 Top of spur, 50 ft. above hollow, bears N.40°E. and S.40° W. Leave heavy and enter scattering timber, bears N. and S. Desc. 36.20 Bottom of hollow, 75 ft. below spur, course S. Asc. 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 6 in N half and S 7 in S half.; and raise a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor. 43.00 Top of spur, 100 ft. above hollow, bears N. and S. Desc. 70.50 Bottom of swale, 30 ft. below spur, course S. Asc. 71.05 old road, bears N.20°W. and S.20°E. 78.10 Intersect the W. Bdy. of Tp., 338 lks. North of the cor. of secs. 1, 6, 7, and 12, heretofore described. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 6 and 7, mkd. on brass cap T 31 S. in N half. S C R 8 W S 1 S 12 in W half.
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Subdivision of T.31 S., R.7 W.-Continued.

Chains	R 7 W S 6 in NE.; and S 7 in SE.; quadrants; from which A cedar, 6 ins. dia., bears N.62°E., 73 lks. dist..mkd.T 31 S R 7 W S 6 B T. A pinon pine, 30 ins. dia., bears S.57°E., 105 lks dist..mkd.T 31 S R 7 W S 7 B T. Note : I destroy all marks on the cor.of secs.1,6,7, and 12, which pertain to secs.6 and 7. Land, mountainous and rough drains southerly. Soil, sandy loam mixed with coarse gravel about 3 ft. deep. Subsoil, gravel and clay. Timber, cedar and pinon pine, pine. Undergrowth, sage and oak brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 78.10 chs. November 18, 1910: At this cor. I set off 19°09' S., on the decl.arc; and at 11 h 45 m a.m., ltm.t., I observe the sun on the meridian, the resulting lat. is 38°09'N., which is the proper lat. nearly.
	N.0°3'W., on a true line bet.secs.5 and 6. Over mountainous land; through heavy cedar and pinon pine timber. and dense sage brush. Asc.
6.25	Top of spur, 50 ft. above cor., bears NE and SW. Desc.
22.80	Bottom of hollow, 200 ft. below spur, course S.40°W. Asc.
30.40	Top of ledge, 40 ft. high, bears N.70°E. and S.70°W.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 16 ins. in the ground, on rock, and surrounded by mound of stone, for sec.cor..mkd.on brass cap $\frac{1}{2}$ S 6 in W half and S 5 in E half; from which

Subdivision of T.31 S., R.7 W.-Continued.

Chains

- A cedar, 6 ins. dia., bears N.34°E., 38 lks.
dist..mkd. $\frac{1}{4}$ S 5 B T.
- A cedar, 8 ins. dia., bears S.22°W., 21 lks.
dist..mkd. $\frac{1}{4}$ S 6 B T.
- 40.40 Top of spur, 500 ft. above hollow, bears NE and SW.
Desc.
- 55.40 Bottom of hollow, 500 ft. below spur, course S.70°W.
Asc.
- 88.00 Top of spur, 250 ft. above hollow, bears NE and SW.
Desc.
- 89.20 Intersect 6th Standard Parallel South, 13.98 chs. N.87°51' E. of the standard $\frac{1}{4}$ sec. cor. on S. side of sec. 31, here-tofore described.
Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 5 and 6, mkd. on brass cap
C C T 30 S R 7 W S 31 S 32 in N half
R 7 W S 5 in SE.; and
E 31 S S 6 in SW. quadrants; from which
A pinon pine, 10 ins. dia., bears S.35°E., 51 lks.
dist..mkd. T 31 S R 7 W S 5 B T.
- A pinon pine, 8 ins. dia., bears S.8°W., 73 lks.
dist..mkd. T 31 S R 7 W S 6 B T.
- Land, rough and steep ridges and hollows covered with volcanic rock and sandstone.
- Soil, sandy loam from 1 to 2 ft. deep, mixed with some rock
Subsoil, gravel and sandstone.
- Timber, cedar and pinon pine.
- Undergrowth, sage brush.
- Good grass for grazing.
- Mountainous or heavily timbered land, 89.20 chs.

November 18, 1910:

John R. Stewart

Instrumentman G.L.O.

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Boundaries of T.31 S., R.7 W.

Latitudes, Departures, and Closing Errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
West Boundary	North	330.91	330.91	.....	.....	.....
6th Standard Par.S.:						
S.Bdy.sec.36	East	23.20	.....	.....	23.20	.....
S.Bdy.sec.31	N.88°17'E.	41.06	1.23	.....	.41.04	.....
S.Bdy.sec.31	N.87°51'E.	42.74	1.60	.....	42.71	.....
S.Bdy.sec.32	N.88°18'E.	41.08	1.22	.....	41.06	.....
S.Bdy.sec.32	S.88°43'E.	39.91	.....	.89	39.90	.....
S.Bdy.sec.33	N.89°54'E.	39.76	.07	.....	39.76	.....
S.Bdy.sec.33	S.89°20'E.	40.48	.....	.47	40.48	.....
S.Bdy.sec.34	S.89°48'E.	39.30	.....	.14	39.30	.....
S.Bdy.sec.34	S.89°46'E.	40.03	.....	.16	40.03	.....
S.Bdy.sec.35	S.89°56'E.	40.14	.....	.04	40.14	.....
S.Bdy.sec.35	S.89°40'E.	40.29	.....	.23	40.29	.....
S.Bdy.sec.36	East	40.10	.....	.....	40.10	.....
S.Bdy.sec.36	S.89°44'E.	13.58	.....	.06	13.58	.....
East Boundary	South	493.44	.....	493.44	.....	.....
South Boundary	West	161.51	.....	.....	.....	161.51
South Boundary	S.89°45'W.	40.31	.....	.18	.....	40.31
South Boundary	S.89°54'W.	39.72	.....	.30	.....	39.72
Subdivision:						
W.Bdy.sec.34	N. 0°08'W.	80.17	80.17	.....	.....	.19
W.Bdy.sec.27	N. 0°03'W.	80.00	80.00	.....	.....	.07
W.Bdy.sec.22	N. 0°33'E.	40.00	40.00	.....	.....	.38
W.Bdy.sec.22	North	40.00	40.00	.....	.....	.....
N.Bdy.sec.22	East	36.98	.....	.....	36.98	.....
N.Bdy.sec.22	N.89°35'E.	39.13	.28	.....	39.13	.....
W.Bdy.sec.14	N. 0°05'W.	83.71	83.71	.....	.....	.12
N.Bdy.sec.14	East	40.00	.....	.....	40.00	.....
N.Bdy.sec.14	N.87°00'E.	42.90	.24	.....	42.84	.....
W.Bdy.sec.12	N. 1°35'W.	39.73	39.71	.....	.....	.10
W.Bdy.sec.12	N. 0°48'W.	38.35	38.35	.....	.....	.54
S.Bdy.sec. 2	N.89°20'W.	40.75	.47	.....	.....	40.75
S.Bdy.sec. 2	N.89°40'W.	41.77	.24	.....	.....	41.77
S.Bdy.sec. 3	S.89°40'W.	80.00	.....	.47	.....	80.00
E.Bdy.sec. 9	South	40.15	.....	40.15	.....	.....
E.Bdy.sec. 9	S. 4°35'E.	40.75	.....	40.62	3.86	.....
S.Bdy.sec. 9	S.89°58'W.	39.97	.....	.02	.....	39.97
S.Bdy.sec. 9	S.89°13'W.	40.05	.....	.55	.....	40.05
E.Bdy.sec.17	S. 0°23'E.	40.06	.....	40.06	.27	.....
E.Bdy.sec.17	S. 1°01'E.	41.36	.....	41.35	.73	.....
S.Bdy.sec.17	S.89°48'W.	79.99	.....	.28	.....	79.99
E.Bdy.sec.19	S. 0°03'W.	40.06	.....	40.06	.....	.03
E.Bdy.sec.19	S. 1°39'E.	41.60	.....	41.58	1.19	.....
S.Bdy.sec.19	N.89°54'W.	40.12	.07	.....	.....	40.12
S.Bdy.sec.19	N.88°26'W.	39.32	1.07	.....	.....	39.31
Convergency						.38
T o t a l s		741.34	741.05	646.75	645.55	
Error in lat. and dep.		741.05		645.55		1.20

GENERAL DESCRIPTION T. 31 S., R. 7 W.

This township comprises the foot hills and some of the higher mountains around the north end of Parowan Valley. The valley at this end narrows down to almost a canon, and the drainage is southwesterly toward Little Salt Lake.

The general formation is sandstone which lies almost horizontal, but is covered in general with volcanic rock for a depth of from 200 to 500 ft. deep.

The soil along the foot hills and in the valley is a sandy and clay loam, from 3 to 6 ft. deep, rich and productive. Subsoil is gravel and clay.

The hills and mountains are covered with a heavy growth of cedar and pinon pine timber. The valley and mouths of the hollows are covered with dense sagebrush, from 3 to 4 ft. high.

There is a small spring of good water in Sec. 34, no mineral was found in the township. There are no settlers in the township.

The township is best adapted, and is used principally for winter sheep and cattle grazing.

*John R Stewart
Dunby Stewart*

Instrumentmen G.L.O.

November 18, 1910.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

For final oaths of assistants see books "X" T. 34 S., R. 10, Chainman.

W. _____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190_____



3000 1385

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 190_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final oaths of transitmen see book "Z¹²" T. 31 S., R. 9 W.

of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }

oooooo
O SEAL O
oooooo

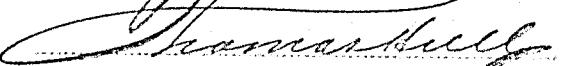
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914.

The foregoing field notes of the survey of the subdivisional lines of Township No. 31 South, Range No. 7 West of the Salt Lake Base and Meridian, Utah,

executed by John R. Stewart and Quinby Stewart
under their special instructions dated August 6, 1910, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.


James M. Kelly
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

James M. Kelly
United States Surveyor General.

FILED
MAR 11 1911

M

FIELD NOTES

R.S.D.

OF THE SURVEY OF THE

EAST AND WEST BOUNDARIES

of

Township No. 31 South, Range No. 6 West,

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

John R. Stewart and Quinby Stewart U.S. Transitmen, New York

Assignment Group 1 Under Job Contract No. 1 dated August 6, 1910., #200

Survey commenced October 21, 1910., #200

Survey completed October 25, 1910., #200

6-161

S. Bdy - 6 - 15 - 88' Closing 16.70
or Bdy - 6 - 18 - 89' " 26.45

NAMES AND DUTIES OF ASSISTANTS.Frank S. AllenChairmanR. Bert CarterChairmanRuban W. RileyMoundmanIsaac R. HayesAxmanMaeser DalleyFlagman

BOOK A-385

INDEX DIAGRAM.

Township 31 South, Range 6 West

17 6	5	4	3	2	1	8
15 7	8	9	10	11	12	6
12 18	17	16	15	14	13	4
12 10	20	21	22	23	24	3
11 30	20	28	27	26	25	2
10 31	32	33	34	35	36	1

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, Frank S. Allen and R. Bert Carter

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of East and West bdys. T. 31 S., R. 6 W. S.L.B. & M., Utah.

Frank S. Allen, Chainman.

R. Bert Carter, Chainman.

Subscribed and sworn to before me this 21st }
day of October 1910. xxx }



John R Stewart

Instrumentman G.L.O.

WE, Ruben W. Riley and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given ^{me} to the best of ^{my} skill and ability, in the survey of East and West bdys. T. 31 S., R. 6 W. S.L.B. & M., Utah.

Ruben W. Riley, Moundman.

Moundman.

Subscribed and sworn to before me this 21st }
day of October 1910. xxx }



John R Stewart

Instrumentman G.L.O.

WE, Isaac R. Hayes and

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ^{me} to the best of ^{my} skill and ability, in the survey of East and West bdys. T. 31 S., R. 6 W. S.L.B. & M., Utah.

Isaac R. Hayes, Axman.

Axman.

Subscribed and sworn to before me this 21st }
day of October 1910. xxx }



John R Stewart

Instrumentman G.L.O.

I, Maeser Dalley, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of East and West bdys. T. 31 S., R. 6 W. S.L.B. & M., Utah.

Maeser Dalley, Flagman.

Subscribed and sworn to before me this 21st }
day of October 1910. xxx }



John R Stewart

Instrumentman G.L.O.

East bdy.T.31 S.,R.6 W.

Survey commenced October 21, 1910, and executed with a W. and L.E. Gurley light mountain transit, No. 957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs;

The instrument was examined, tested on the meridian, at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

Note: For test of instrument see page 10 this book.

At the cor. of Tps. 31 and 32 S., Rs. 5 and 6 W.; heretofore described, latitude $38^{\circ}04'17''$ N., longitude $112^{\circ}26'39''$ W., I set off $38^{\circ}04'$ N., on the lat.arc; $10^{\circ}30'$ S., on the decl.arc and at 7 h 45 m a.m., l.m.t., I determine a meridian with the solar.

Thence I run

North, bet. secs. 31 and 36.

Over mountainous land; through dense sage brush.

Desc.

6.00 Bottom of hollow, 50 ft. below cor., course E.

Asc.

26.00 Top of ridge, 150 ft. above hollow, bears N. 60° E. and S. 60° W

Desc.

38.65 Trail in bottom of hollow, 200 ft. below ridge, course E.

The trail bears N. 70° E and S. 70° W.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$. S 36 in W half. and S 31 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

52.50 Top of ridge, 75 ft. above hollow, bears E. and W.

Desc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 15 ins. in the ground, on bed rock, and surrounded by mound of stone, and earth, for cor. of secs. 25, 30, 31, and 36, mkd. on brass cap

East bdy.T.31 S., R.6 W.-Continued.

Chains	T 31 S in N half. R 6 W S 25 in NW. R 5 W S 30 in NE. S 31 in SE; and S 36 in SW quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, rolling ridges and hollows near the top of the range of mountains separating Parowan and Sevier valleys. The slopes are smooth and gradual. Soil, black sandy loam from 1 to 2 ft. deep, medium texture and moist. Subsoil, clay and gravelly. No timber. Undergrowth, sage brush and scattering oak brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	North, bet. secs. 25 and 30. Over mountainous land; through dense undergrowth. Desc.
11.70	Bottom of hollow, 100 ft. below cor., course SW. Asc.
35.20	Top of ridge, 400 ft. above hollow, bears N.40°W. and S.40°E. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 25 in W half; and S 30 in E half; from which A granite ledge, 6x6x3 ft. above ground, bears S.13°30'E., .52 lks. dist. mkd. + B.O.
	And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
50.00	Begin more abrupt descent, bears E. and W.

East bdy.T.31 S., R.6 W.-Continued.

Chains	
. 80.00	Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 19, 24, 25, and 30, mkd. on brass cap T 31 S in N half. R 6 W S 24 in NW. R 5 W S 19 in NE. S 30 in SE.; and S 25 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, rolling mountainous country covered with dense sage and oak brush. Soil, rich clay loam about 2 ft. deep, mixed with rock. No timber. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs. October 21, 1910: At the noon hour the sky is overcast and solar observations are impossible.
	North, bet. secs. 19 and 24. Over mountainous land; through dense undergrowth.
Desc.	
5.00	Old road, bears N. 60°W. and S. 60°E.
6.00	Bottom of Fremont Canon, 30 ft. below cor., course N. 60°W.
Asc.	
18.30	Top of spur, 200 ft. above canon, bears N. 30°E. and S. 30°W.
Desc.	
30.85	Bottom of hollow, 50 ft. below spur, course S. 40°W.
Asc.	
40 00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 24 in W half and S 19 in E half; and raise a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor.

E.bdy.T.31 S., R.6 W.-Continued.

Chains

- 42.60 Top of spur, 400 ft. above hollow, bears N.40°E. and S.40°W.
Desc.
- 46.10 Bottom of hollow, 50 ft. below spur, course S.40°W.
Asc.
- 56.95 Top of spur, 360 ft. above hollow, bears N.60°E. and S.60°W
Desc.
- 69.00 Bottom of hollow, 200 ft. below ridge, course SW.
Asc.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the
ground, on bed rock, and surrounded by mound of earth and
stone, for cor. of secs. 13, 18, 19, and 24, mkd. on brass cap
T 31 S in N half.
R 6 W S 13 in NW.
R 5 W S 18 in NE.
S 19 in SE.; and
S 24 in SW. quadrants; and raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Land, mountainous sloping southwest, steep and rocky.
Soil, clay loam about 12 ins. deep, mixed with volcanic
rock.
No timber.
Undergrowth, oak, sage, and buck brush.
Good grass for grazing.
Mountainous land, or land covered with dense undergrowth,
30.00 chs.

October 21, 1910.

October 22, 1910: At 7 h 45 m a.m., l.m.t., I set off 38°07' N.
on the lat. arc; 10°51'S., on the decl. arc; and determine a
meridian with the solar, at the cor. of secs. 13, 18, 19, and
24.

Thence I run

North, bet. secs. 13 and 18.

E.bdy.T.31 S.,R.6 W.-Continued.

Chains

Overmountainous land; through dense oak and sage brush.

Asc.

3.50 Top of spur, 40 ft. above cor., bears NE and SW.

Desc.

10.00 Bottom of swale, 50 ft. below ridge, course W.

Asc.

17.00 Top of spur, 40 ft. above hollow, bears NE and SW.

Desc.

20.00 Enter dense buck brush, bears E. and W.

Leave dense and enter scattering oak and sage brush,
bears E. and W.

24.00 Bottom of hollow, 200 ft. below spur, course S.60°W.

Asc.

25.00 Leave buck brush, bears N.60°E. and S.60°W.

Enter dense oak and sage brush, bears N.660°E. and S.60°
W.35.00 Top of spur, 300 ft. above hollow, bears N.80°E. and S.80°
W.

Desc;

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{2}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 13 in W half
and S 18 in E half; and raise a mound of stone, 2 ft. base,
 $1\frac{1}{2}$ ft. high, W. of cor.

40.75 Bottom of hollow, 200 ft. below spur, course SW..

Asc.

60.00 Top of ridge, 300 ft. above hollow, bears E. and SW.

Desc.

61.00 Leave sage brush and enter dense oak brush, bears NE. and
SW.

Enter scattering aspen timber, bears NE. and S. W.

71.50 Leave aspen timber, bears E. and W.

73.00 Bottom of swale, 100 ft. below ridge, course W.

Asc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the
ground, for cor.of secs. 7, 12, 13, and 18, mkd.on brass cap

E, bdy.T.31 S., R.6 W.-Continued.

Chains

T 31 S in N half.

R 6 W S 12 in NW.

R 5 W S 7 in NE.

S 18 in SE.; and

S 13 in SW. quadrants; and raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, high rolling mountains, with steep north slopes,
drains westerly.

Soil, rich black loam about 18 ins. deep, mixed with volcanic
rock and gravel. Subsoil clay and rock.

Timber, aspen.

Undergrowth, oak, sage, and buck brush.

Good grass for grazing on N half.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

North, bet. secs. 7 and 12.

Over mountainous land; through dense oak and sage brush.

Asc.

5.00 Top of ridge, 40 ft. above cor., bears E. and W.

Desc:

6.50 Leave sage brush and enter dense aspen timber, bears
E. and W.

28.75 Bottom of hollow, 350 ft. below ridge, course W.

Asc.

30.95 Leave aspen timber, bears E. and W.

Enter dense mahogany brush and scattering cedar and
pinon pine timber, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the
ground, on bed rock, and surrounded by mound of earth
and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 12 in W half
and S 7 in E half.; from which

A mahogany, 5 ins. dia., bears N. 80° E., 30 lks.

E.bdy.T.31 S., R.6 W.-Continued.

Chains

dist..mkd. 4 S 7 BnT.

A granite boulder, 5x4x10 ft. high, bears S.5°W., 18 lks. dist..mkd. + B O.

45.20 Leave mahogany and cedar and pinon pine timber, bears NW and SE.

Enter dense sage and buck brush, bears NW and SE.

47.40 Top of ridge, 300 ft. above hollow, bears N.60°E. and S.60° W.

Desc.

64.10 Bottom of swale, 100 ft. below ridge, course S.50°W.

Asc.

76.25 Top of ridge, 150 ft. above swale, bears N.40°W., S.70°E. and S.65°W.

Desc.

78.00 Enter heavy pine and aspen timber, bears NW. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, mkd. on brass cap

T 31 S in N half.

R 6 W S 1 in NW.

R 5 W S 6 in NE.

S 7 in SE.; and

S 12 in SW. quadrants; from which

An aspen, 3 ins. dia., bears N.42°40'E., 27 lks.

dist..mkd.T 31 S R 5 W S 6 B T.

An aspen, 4 ins. dia., bears S.54°E., 67 lks.

dist..mkd.T 31 S R 5 W S 7 B T.

A red pine, 16 ins. dia., bears S.25°10'W., 67 lks.

dist..mkd.T 31 S R 6 W S 12 B T.

A red pine, 4 ins. dia., bears N.55°W., 68 lks.

dist..mkd.T 31 S R 6 W S 1 B T.

Land, high mountains with steep slopes and covered with volcanic rocks and boulders.

Soil, rich clay loam about 1 ft. deep, mixed with volcanic rocks and on volcanic rock or white clay subsoil.

Timber, cedar, pinon pine, red and white pine and aspen.

E.bdy.T.31 S.,R.6 W.-Continued.

Chains	Undergrowth, oak, sage, mahogany, and buck brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs. October 22, 1910: At this cor. I set off 10°56'S., on the decl. arc; and at 11 h 45 m a.m., l.m.t., I observe the sun on the meridiam, the resulting lat. is 38°09'N., which is the proper lat. nearly.
	North, bet. secs. 1 and 6. Over mountainous land; through heavy pine and aspen timber and scattering undergrowth. Desc. abruptly.
18.00	Leave aspen timber, bears E. and W. Continue in pine.
37.70	Bottom of canon, 700 ft. below cor., course N.50°W. about 1.00 ch. thence about west. Leave timber, bears NW and SE.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{2}$ S 1 in W half and S 6 in E half; and raise a mound of stone, $\frac{3}{4}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
40.10	Begin more abrupt ascent, bears N.W. and SW.
60.15	Top of ridge, 150 ft. above canon, bears N.60°E. and S.60°W. Desc.
70.00	Bottom of swale, 50 ft. below ridge, course S.50°W. Asc.
95.88	Intersect 6th Standard Parallel South, 16.70 chs. N.89°50'E. of the standard $\frac{1}{4}$ sec. cor., on S.bdy.sec.36, heretofore described in the retracement of The Standard. Set an iron post, 3 ft. long, 3 ins. in dia., 15 ins. in the ground, on rock, and surrounded by mound of stone, for

E.bdy.T.31 S.,R.6 W.:Continued.

Chains

closing cor.of Tps.31 S.,Rs.5 and 6 W.,mkd.on brass cap
T 30 S R 5 W R 6 W S 36 S.31 in N half.

C C T 31 S in S half.

R 5 W S 6 in SE.;and

R 6 W S 1 in SW.quadrants;from which

A mahogany,5 ins.dia.,bears S.16°30'E.,9 lks.

dist..mkd.T 31 S R 5 W S 6 B T.

A mahogany,4 ins.dia.,bears S.55°W.,35 lks.

dist..mkd .T 31 S R 6 W S 1 B T.

Land,high mountain ridges and deep hollows;with steep slopes and covered with volcanic rock .general slope and drainage West.

Soil,clay loam mixed with volcanic rock and shale.about 14 ins.deep.Subsoil,clay and rock.

Timber,pine and aspen.

Undergrowth,oak,sage,mahogany and buck brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with dense undergrowth,95.88 chs.

October 22,1910.

West bdy.T.31 S.,R.6 W.

October 23,1910:At the cor.of Tps.31 and 32 S.,R.6 W. heretofore described,,latitude 38°04'47"S.,longitude 112°33'13"W.,I set off 38°04'N.,on the lat.arc;11°19'S.,on the decl.arc;and at 3 h 45 m p.m.,l.m.t.,I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground,5.00 chs.N.of the cor.

At 5 h 21 m p.m.,l.m.t.,I observe Polaris at eastern elongation,in accordance with the Manual, and mark the line thus determined on a wooden plug set in the ground, 5.00 chs.N.of the cor.

October 23,1910.

W.bdy.T.31 S.,R.6 W.-Continued.....

Chains

October 24, 1910: At 7 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}29.4'$ to the west, and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of the cor.; this mark falls 0.39 ins.east of the meridian established by the solar.

At 7 h 44 m a.m., l.m.t., I set off $38^{\circ}04'N.$, on the Lat. arc; $11^{\circ}33\frac{1}{2}'S.$ on the decl.arc; and mark the meridian determined with the solar, by a cross on the stone already set 5.00 chs.N.of the cor.; this mark falls 0.41 ins.east of the mark determined by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridian respectively about $0'21''$ west and $0'22''$ east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8 h 30 m a.m., is N. $15^{\circ}57'W.$, the angle thus determined gives the mag. decl. $|5^{\circ}57'E.$

Knowing that closing corners will be necessary for the Tp.west, I survey this line for W.bdy.of T.31 S.R.6 W.only.

From the cor.of Tps.31 and 32 S., R.6 W., heretofore described

I run

North, along west bdy.sec.31 ..

Over rolling land in Buckskin Valley, through dense under-growth.

Desc.gently.

37.00 Road from Beaver to Panguitch, bears N. $40^{\circ}W.$ and S. $40^{\circ}E.$

40.00 Set an iron post, 3 ft.long, 1.in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.corl.mkd. on brass cap $\frac{3}{4}^{\frac{3}{4}}S.26.in$ W.half; S 31 in E.half.; dig pits, 18x16x12 ins., N.and S.of post, 3 ft.dist.; and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high, W.of cor.

W.bdy.T.31 S., R.6 W.-Continued.

Chains

- 77.50 Wash, 40 lks. wide, 4 ft. deep, Main wash in Buckskin valley,
course N.25°E.
Leave valley, bears N.25°E. and S.25°W.
Asc. gradually.
80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the
ground, for cor. of secs. 30 and 31, mkd. on brass cap
T 31 S in N half.
R 6 " S 30 in NE.; and
S 31 in SE.; quadrants; and raise a mound of stone
2 ft. base, 1½ ft. high, W. of cor.
Land, gently rolling, and sloping northward.
Soil, clay loam rich and medium texture, mixed with rock
and gravel.
No timber.
Undergrowth, sage brush and scattering oak.
No grass..
Land covered with dense undergrowth, 80.00 chs.

North, along west bdy, sec. 30.

Over mountainous land; through dense undergrowth.

Asc.

- 10.00 Top of spur, 40 ft. above cor., bears E. and W.
Desc.
17.50 Bottom of swale, 30 ft. below spur, course E.
Asc.
56.00 Enter scattering cedar and pinon pine timber, bears E. and
W.
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 25 in W half
and S 30 in E half; from which
A cedar, 6 ins. dia., bears N.60°E., 153 lks.
dist. mkd. $\frac{1}{4}$ S 30 B T.

W.bdy.T.31 S., R.6 W.-Continued.

Chains	
56.25	Top of spur, 65 ft. above hollow, bears E. and W. Desc.
61.10	Bottom of swale, 25 ft. below spur, course S.80°E., Asc.
70.00	Top of main ridge, 75 ft. above swale, bears N.15°E. and S.15°W. Desc.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 19 and 30, mkd. on brass cap T 31 S in N half. R 6 W S 19 in NE. S 30 in SE. quadrants; from which A pinon pine, 6 ins. dia., bears N.13°E., 66 lks. dist..mkd.T 31 S R 6 W S 19 B T. A pinon pine, 8 ins. dia., bears S.25°E., 41 lks. dist..mkd.T 31 S R 6 W S 30 B T.
	Land, mountainous sloping southward.
	Soil, clay loam; 2nd rate. subsoil, clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage and oak brush.
	Good grass for grazing.
	Mountainous or heavily timbered land; or land covered with dense undergrowth, 80.00 chs.
	October 24, 1910: At this cor. I set off 11°38'S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°06'N., which is the proper lat. nearly.
	North, along W.bdy.sec.19.
	Over mountainous land; through heavy cedar and pinon pine timber.
	Desc.
22.25	Bottom of hollow, 200 ft. below ridge, course NW.

W.bdy.T.31 S.,R.6 W.-Continued.

Chains	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 24 in W half. and S 19 in E half; from which A pinon pine, 18 ins. dia., bears S.7°E., 51 lks. dist..mkd. $\frac{1}{2}$ S 19 B T.
50.00	Top of spur, 200 ft. above hollow, bears S.60°E. and S.60°W. Desc.
61.80	Bottom of hollow, 110 ft. below spur, course W. Asc.
72.00	Top of spur, 160 ft. above hollow, bears N.80°E. and S.80°W. Desc.
80.00	150 ft. below ridge, Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for cor.of secs.18 and 19,mkd.on brass cap T 31 S in N half. R 6 W S 18 in NE.; and S 19 in SE.quadrants; from which A pinon pine, 10 ins. dia., bears N.88°E., 36 lks. dist..mkd.T 31 S R 6 W S 18 B T. A pinon pine, 9 ins. dia., bears S.77°30'E., 90 lks. dist..mkd.T 31 S R 6 W S 19 B T. Land, high mountains, general slope and drainage westerly. Soil, clay and gravelly loam from 6 to 14 ins.deep, on gravel and rock subsoil. Timber, cedar and pinon pine. A very little grass. Mountainous or heavily timbered land, 80100 chs.

October 24, 1910.

October 25, 1910:At 7 h 44 m a.m., l.m.t., I set off 38°07'N.,

W.bdy.T.31 S., R.6 W.-Continued.

Chains	lat.arc; 11°54'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.18 and 19. Thence I run North, along west bdy.sec.18 Over mountainous land; through heavy cedar and pinon pine timber, and scattering sage and oak brush.
Desc.	
3.00	Bottom of hollow, 50 ft. below cor., course S.80°W. Asc.
7.30	Top of volcanic ledge, 35 ft. high, bears E. and W.
9.90	Foot of ledge, 30 ft. high, bears E. and W.
16.60	Top of spur, 200 ft. above hollow, bears E. and W. Desc.
26.90	Begin abrupt descent, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 13 in " half; and S 18 in E half; from which A pinon pine, 11 in. in dia., bears N.64°E., 76 lks. dist..mkd. $\frac{1}{4}$ S 18 B T.
42.90	Head of hollow, 75 ft. below spur, course NW. Asc.
48.80	Top of spur, 50 ft. above hollow, bears NW and SE. Desc.
58.90	Bottom of hollow, 80 ft. below spur, course NW. Asc.
63.00	Top of spur, 35 ft. above hollow, bears N.40°W. and S.40°E. Desc.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor.of secs.7 and 18,mkd.on brass cap T 31 S in NW half. R 6 " S 7 in NE.; and S 18 in SE.; quadrants; from which A cedar, 20 ins.dia., bears N.58°E..93 lks. dist..mkd.T 31 S R 6 W S 7 B T. A cedar, 7 ins.dia., bears S.51°E., 42 lks.

W.bdy.T.31 S.,R.6 W. Continued.

Chains	dist..mkd.w 31 S R 6 W S 18 B.T.
	Land, mountainous, very broken, and rough slopes and drains westerly.
	Soil, sandy clay loam about 6 ins. deep, subsoil mostly bed rock.
	Timber, heavy cedar and pinon pine.
	Undergrowth, scattering oak and sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.
	October 25, 1910: At this cor. I set off 11°59'S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°08'N., which is the proper lat. nearly.
	North, along west bdy.sec.7.
	Over mountainous land; through heavy cedar and pinon pine timber and scattering oak and sage brush.
	Desc.
4.10	Bottom of hollow, 60 ft below cor., course E.
	Asc.
11.00	Top of spur, 60 ft. above hollow, bears N.50°E. and S.30°W.
	Desc.
16.00	Head of hollow, 20 ft. below spur, course NW.
	Asc.
21.00	Top of spur, 30 ft. above hollow, bears N.50°W. and S.50°E.
	Desc.
26.50	Bottom of swale, 80 ft. below spur , course N.50°W.
	Asc.
34.00	Top of spur, 80 ft. above swale, bears NW and SE.
	Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 12 in $\frac{1}{2}$ half

W.bdy.R.51 S., R.6 W.- Continued.

Chains	and S 7 in E half; from which A pinon pine, 8 ins. dia., bears N.48°E., 17 lks. dist. mkd. $\frac{1}{4}$ S 7 B T.
64.00	Bottom of hollow, 350 ft. below spur, course N.10°W. Asc.
77.00	Old road bears E. and W. Leave timber, bears E. and W.
79.64	South edge of wash, 100 lks. wide, 4 ft. deep, course S.80°W. Note: The 80.00 chs. point will fall in the wash where it will be impossible to perpetuate the cor.; therefore at this point I Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for witness cor. to cor. of secs. 6 and 7, mkd. on brass cap T 31 S in N half.. R 6 W S 6 W C in NE.; and S 7 in SE.; quadrants; from which A pinon pine, 10 ins. dia., bears N.3°E., 163 lks. dist. mkd. W C T 31 S R 6 W S 6 B T.
80.00	No other trees within limits; dig pits, 24x24x12 ins., in each sec. 6 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor. Point for cor. of secs. 6 and 7 falls in Bottom of Wash in Bottom of Fremont Canon, 100 ft. below spur, course S.80°W. Cor. could not be perpetuated. Land, mountainous S.54.00 chs. broken and rough N.46.00 chs. more rolling and not so high. Soil, rich clay loam, mixed with some rock, about 2 ft. deep. Timber, cedar and pinon pine. Undergrowth, oak and sage brush. Good grass in patches. Mountainous land, or land covered with heavy timber, 80.00 chs.

W.bdy.T.31 S.,R.6 W.-Continued.

Chains

North, along W.bdy.sec.6, from the point for cor.of secs. 6 and 7 which is 36 lks.North of the witness cor.to cor. of secs.6 and 7.

Over rolling mountainous land;through dense sage brush and scattering cedar and pinon pine timber.

Asc.

- .60 North edge of Wash, course S.80°W.
- 20.25 Top of ascent, 50 ft.above canon, bears E.and W.
Thence over rolling mesa.
- 40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec/cor.mkd.on brass cap $\frac{1}{4}$ S 1 in W half and S 6 in E half;from which
A pinon pine, 7 ins.dia., bears N.65°E., 46 lks.
dist..mkd. $\frac{1}{4}$ S 6 R T.

59.00 Leave mesa, bears NW and SE.

Desc.

- 64.50 Bottom of swale, 100 ft.below mesa, course NW.
Asc. gradually in edge of hollow.
- 70.00 Leave timber, bears NE and SW.
- 91.20 Wash, 35 lks.wide, 4 ft.deep,in bottom of broad hollow, 100 course SW.

Asc.

- 93.70 Wood road,bears NE and SW.
- 98.89 Intersect 6th Standard Parallel South, 26.45 chs.N.89°44' W.of the standard cor.of Tps.30 S.,Rs.6 and 7 W.,which is a gray sandstone,14 x12x8 ins.above ground,firmly set, and mkd.and witnessed as described by the surveyor general,
This cor.stone is partly decayed ;therefore I destroy the old cor.and re-establish it in the same place as follows:
Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground,for standard cor.of Tps.30 S.,Rs.6 and 7 W.,mkd. on brass cap
T 30 S in N half.
R 7 W S 36 in NW.;
and R 6 W S 31 in NE.quadrants;and raise a mound

W.bdy.T.31 S., R.6 W.-Continued.

Chains

of stone, 2 ft. base, $1\frac{1}{2}$ ft high, N. of cor.

At my intersection with the Standard I.

Set an iron post, 3 ft. long, 3 ins. in dia., 18 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for closing cor. of Tps. 31 S., Rs. 6 and 7 W.; mkd. on brass cap.

T 30 S R 6 W R 7 W S 31 S 36 in N half.

C C T 31 S in S half.

R 6 W S 6 in SE.; and

R 7 W S 1 in SW. quadrants; from which

A cedar, 4 ins. dia., bears S.30°E., 110 lks.

dist.. mkd. T 31 S R 6 W S 6 B.T.

A cedar, 4 ins. dia., bears S.24°30'W., 84 lks.

dist.. mkd. T 31 S R 7 W S 1 B.T.

Land, rolling mountainous land, on S.20.25 chs. and N.39.89 chs. the balance is a rolling mesa covered with dense undergrowth and scattering cedar and pinon pine timber. Soil, on the entire mile is a rich sandy clay loam about 18 in. deep, mixed in patches with rock but in the main free from rock. Subsoil, clay and gravel.

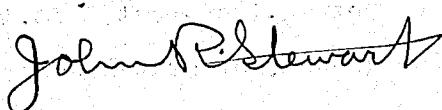
Timber, cedar and pinon pine.

Undergrowth, sage and oak brush.

Good grass in patches.

Mountainous land, or land covered with dense undergrowth, 98.89 chs.

October 25, 1910.



Instrumentman G.L.O.

Boundaries of T.31 S., R.6 W.

Boundaries of T.31 S., R.6 W.

Latitudes, departures, and closing errors.

Line designated	Course	distance	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
W.bdy.T.31 S., R.6 W. North		.498.89	498.89		.	.
W.bdy.T.31 S., R.6 W.S.89°44'E.	,26.45				.12	26.45
W.bdy.T.31 S., R.6 W.S.89°16'E.	40.50				1.97	40.45
W.bdy.T.31 S., R.6 W.S.89°50'E.	40.19				.12	40.19
W.bdy.T.31 S., R.6 W.S.89°22'E.	40.11				.44	40.11
W.bdy.T.31 S., R.6 W.S.89°E.	40.05				.70	40.05
W.bdy.T.31 S., R.6 W.N.89°54'E.	,30.22				.14	30.22
W.bdy.T.31 S., R.6 W.S.89°10'E.	40.11				.56	40.11
W.bdy.T.31 S., R.6 W.N.89°40'E.	40.13				.25	40.13
W.bdy.T.31 S., R.6 W.N.89°56'E.	30.33				.10	30.33
W.bdy.T.31 S., R.6 W.N.89°44'E.	39.60				.18	39.60
W.bdy.T.31 S., R.6 W.N.89°50'E.	16.70				.05	16.70
Z.bdy.T.31 S., R.6 W.South		495.88			495.88	
S.bdy.T.31 S., R.6 W.S.89°16'W.	80.75				.99	80.74
S.bdy.T.31 S., R.6 W.S.89°17'W.	63.70				1.05	83.69
S.bdy.T.31 S., R.6 W.N.89°53'W.	40.10				.08	40.10
S.bdy.T.31 S., R.6 W.West		40.00				40.00
S.bdy.T.31 S., R.6 W.S.89°33'W.	40.18				.32	40.18
S.bdy.T.31 S., R.6 W.S.89°46'W.	39.60				.16	39.60
S.bdy.T.31 S., R.6 W.N.89°55'W.	39.68				.06	39.68
S.bdy.T.31 S., R.6 W.N.89°25'W.	40.51				1.12	40.49
S.bdy.T.31 S., R.6 W.N.89°10'W.	80.84				1.17	80.83
Convergency						.57
Totals			502.02	502.33	484.91	485.31
Error in lat.					502.02	484.91
Error in Dep.					31	
						.40

GENERAL DESCRIPTION.

For general description see sub.T.31 S., R.6 W.

John R Stewart

Instrumentman G.T.O.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John R. Stewart
 Instrumentman G.L.O., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of East and West bds. T. 31 S., R. 6 W., S. L. B. & M., Utah.
 showing the respective capacities in which they acted:

Frank S. Allen, Chairman.
 R. Bert Carter, Chairman.
 Ruban W. Riley, Moundman.
 , Moundman.
 Isaac R. Hayes, Axman.
 , Axman.
 Maeser Dalley, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John R. Stewart
 Instrumentman G.L.O., United States Deputy Surveyor, in surveying all those parts or portions of the E and W bds. T. 31 S., R. 6 W., mentioned,

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Frank S. Allen, Chairman.
 R. Bert Carter, Chairman.
 Ruban W. Riley, Moundman.
 , Moundman.
 Isaac R. Hayes, Axman.
 , Axman.
 Maeser Dalley, Flagman.

Subscribed and sworn to before me this 25th day of October 1910. }



John R. Stewart
Instrumentman G.L.O.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, John R. Stewart, United States Deputy Surveyor, do solemnly swear that, in pursuance of special instructions, received from Thomas Hull, Transitman, United States Surveyor General for Utah, bearing date of the 6th day of August, 1910, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the east and west boundaries of Township No. 31 South, Range No. 6 West

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

John R. Stewart
United States Deputy Surveyor.
Transitman

Subscribed by said John R. Stewart, and sworn to before me,



Thomas Hull

U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914¹⁹¹⁰

The foregoing field notes of the survey of the east and west boundaries of Township No. 31 South, Range No. 6 West of the Salt Lake Base and Meridian, Utah,

executed by John R. Stewart,
under his contract No. A, dated August 6, 1910, XNR, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-385

M. S. B.

FIELD NOTES

OF THE SURVEY OF THE

RETRACEMENT SIXTH STANDARD PARALLEL SOUTH

through

Range 6 West

Of the Salt Lake Base and Meridian,
State of Utah

AS SURVEYED BY

John R. Stewart and Quinby Stewart, U.S. Transitmen, ~~and Assistant Surveyor~~,
Under ~~Assignment~~ Assignment Group No. 1, dated August 6, 1910, ~~xxx~~Survey commenced October 30, 1910., ~~xxx~~Survey completed November 1, 1910., ~~xxx~~

Rt. 6th line - 6-01-35

NAMES AND DUTIES OF ASSISTANTS.

Verne O. Nelson Chainman

Alton Ivie Chainman

Harvey W. Elliott Moundman

Nicholas L. Sheffield Axman

Milo Nelson Flagman

Maeser Dalley Chainman

Harvey W. Elliott Chainman

Alton Ivie Moundman

Milo Nelson Axman

The first set of the above named assistants were used in
running the east three miles of the 6th Standard Parallel South
⁶⁻¹⁵¹ and the second set for the west three miles.

BOOK A-385

INDEX DIAGRAM.

Township ~~W.E.~~ 31 South, Range 6 West

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, Verne O. Nelson, Alton Ivie and Maeser Dalley and Harvey W. Elliott do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Retracement 6th Standard Parallel South, through Range 6 W., S.L.B. & M. Utah.

Subscribed and sworn to before me this 31st day of October 1910, m.m.



Maeser Dalley, Chainman.
Harvey W. Elliott, Chainman.
Verne O. Nelson, chainman
Alton Ivie chainman.
Dunby Stewart.
Instrumentman G.L.O.

We, Harvey W. Elliott and Alton Ivie do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of Retracement 6th Standard Parallel South, through Range 6 W., S.L.B. & M. Utah.

Subscribed and sworn to before me this 31st day of October 1910, m.m.



Alton Ivie, Moundman.
Harvey W. Elliott, Moundman.
Dunby Stewart.
Instrumentman G.L.O.

We, Nicholas L. Sheffield and Milo Nelson do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of Retracement 6th Standard Parallel South, through Range 6 West, S.L.B. & M., Utah.

Subscribed and sworn to before me this 31st day of October 1910, m.m.



Milo Nelson, Axman.
Nicholas L. Sheffield, Axman.
Dunby Stewart.
Instrumentman G.L.O.

I, Milo Nelson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Retracement 6th Standard Parallel South, through Range 6 West, S.L.B. & M., Utah.

Subscribed and sworn to before me this 31st day of October 1910, m.m.



Milo Nelson, Flagman.
Dunby Stewart.
Instrumentman G.L.O.

Retracement Sixth Standard Par.S.through R.6 W.

Survey commenced October 30, 1910, and executed with a Young and Sons light mountain transit, No. 2222, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs;

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation; I proceed as follows:

At the Standard cor. of Tps.30 S., Rs.5 and 6 W., latitude $38^{\circ}09'30''$ N., longitude $112^{\circ}26'39''$ W., I set off $38^{\circ}09'30''$ N., on the lat.arc; $15^{\circ}42'$ S., on the decl.arc; and at 3 h 44 m p.m., l.m.t., I determine a meridian with the solar, at the Standard cor. of Tps.30 S., Rs.5 and 6 W.; and mark the meridian determined with the solar, by a cross on a stone firmly set, in the ground, 5.00 chs.N. of the cor.

At 4 h 54 m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs.N. of the cor.;

October 30, 1910.

October 31, 1910: At 7 h 50 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}29.4'$ to the west, and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N. of the cor.; this mark

Retracement Sixth Standard Par.S.-through Range 6 W.

Chains

falls 0.4 ins.east of the meridian establish by the solar.

At 7 h 44 m a.m., l.m.t., I set off $58^{\circ}09\frac{1}{2}'N.$, on the lat. arc; $13^{\circ}55'S.$, on the decl.arc; and mark the meridian determined by the solar, by a cross on the stone, already set 5.00 chs.N. of the cor.; this mark falls 0.36 ins.east of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0'21''$ west and $0'19''$ east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8 h 30 m a.m., is $N.15^{\circ}59'E.$; the angle thus determined gives the mag.decl. $15^{\circ}59'W.$

The standard cor.of Tps.30 S.,Rs.5 and 6 W.,is a sand-stone, 8x13x12 ins.above ground, firmly set, and mkd.and witnessed as described by the surveyor general. The old cor.stone is partly decayed therefore I destroy the old cor. and re-establish it in the same place as follows: Set an iron post 3 ft.long, 3 ins.in dia., 20 ins.in the ground, on bed rock, and surrounded by mound of earth and stone, for standard cor.of Tps.30 S.,Rs.5 and 6 W.,mkd. on brass cap .

T 30 S in N half.

R 6 W S 36 in NW.

R 5 W S 31 in NE.quadrants; and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, N.of cor.

Note: In closing T.31 S., R.6 W. I discovered it would be necessary to retrace the 6th Standard Parallel through Range 6 W..

Therefore I run

West, on retracement line along S.side sec.36.

Retracement 6th Standard Parallel S.-through R.6 W.-Contd.

Chains	
23.41	Fall .06 lks. N. of the closing cor. of Tps. 31 S., Rs. 5 and 6 W., heretofore described.
40.11	Fall 12 lks. N. of the Standard $\frac{1}{4}$ sec. cor. on N. bdy. sec. 36, which is a quartzite stone, 7x12x5 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The stone is poorly mkd. therefore I destroy the old cor. and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for Standard $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ S 36 in N half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.71	Fall 31 lks. N. of the cor. of secs. 35 and 36, which is a sandstone, 8x12x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The cor. is partly decayed therefore I destroy the old cor. and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of secs. 35 and 36. mkd. on brass cap
	T 30 S S. 35 in NW.
	R 6 W S 36 in NE.; quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	The course of the east half of this mile is therefore S. 89°50' W., 40.11 chs. The west half is S. 89°44' W., 39.60 chs.
	No change in topography from original notes.
	October 31, 1910: At this cor. I set off 14'00"S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°09' N., which is the proper lat. nearly.
	West, on a retracement line along N. bdy. sec. 35.
39.98	Fall 5 lks. N. of the $\frac{1}{4}$ sec. cor. on N. bdy. secs. 35, which is

Retracement 6th Standard Par.S.through R.6 W.-Contd.

- Chains a sandstone, 12x12x7 ins., above ground, firmly set, and mkd and witnessed as described by the surveyor general. The cor. is poorly mkd. therefore I destroy the old cor. and re-establish it in the same place as follows:
- Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec.cor.. mkd.on brass cap $\frac{1}{2}$ S 35 in N half. and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.of cor.
- 80.33 Fall 10 lks. N.of the standard cor.of secs.34 and 35, which is a sandstone, 10x15x5 ins., mkd. and witnessed as described by the surveyor general. The old cor. is badly decayed therefore I destroy the old cor. and re-establish it in the same place as follows:
- Set an iron post, 3 ft. long, 3 ins. in dia., 13 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for standard cor.of secs.34 and 35, mkd.on brass cap T 30 S S 34 in NW.;and
- R 6 W S 35 in NE. quadrants;and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.of cor.
- The course of this line is therefore S.89°56'W., 80.33 ods.
- No change in topography from original notes.
-
- West, on a retracement line along S.bdy.sec.34.
- 40.13 Fall 23 lks. N.of the $\frac{1}{2}$ standard cor.on S.bdy.sec.34, which is a sandstone, 10x9x5 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The old stone is poorly mkd. therefore I destroy the old cor. and re-establish it in the same place as follows:
- Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for Standard $\frac{1}{2}$ sec.cor., mkd.on brass cap $\frac{1}{2}$ S 34 in N half.;and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.of cor.
- 80.24 Fall 35 lks. South of the standard cor.of secs.33 and 34, which is a sandstone, 10x10x5 ins., firmly set, and mkd. and

Retracement 6th Standard Parallel South through R.6 W.-Contd.

Chains	witnessed as described by the surveyor general. The cor. stone is partly decayed therefore I destroy the old cor. and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 3 ins. in dia., 14 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for standard cor. of secs. 33 and 34, mkd. on brass cap. T 30 S S 33 in NW. R 6 7 S 34 in NE. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. The course of the east half of this mile is therefore S. $89^{\circ}40'W.$, 40.13 chs. and the west half is N. $89^{\circ}10'W.$, 40.11 chs. No change in topography from original notes.
	October 31, 1910.
40.14	November 1, 1910: At 7 h. 44 m a.m., l.m.t., I set off $38^{\circ}09'N.$, on the lat.arc; $14^{\circ}14'S.$, on the decl.arc; and determine a meridian with the solar, at the standard cor. of secs. 33 and 34. Thence I run West, along N. bdy. sec. 33 on retracement line. Fall 7 lks. N. of the standard $\frac{1}{4}$ sec. cor. on N bdy. sec. 33, which is a trachyte stone, 9x10x9 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general; the stone is greatly decayed therefore I destroy the old cor. and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for standard $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4} S 33$ in N half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high

Retracement 6th Standard Parallel S.-through R.6 W.-Continued.

Chains	N.of cor.
80.22	Fall 14 lks.N.of the standard cor.of secs.32 and 33, which is a trachyte stone,11x14x8 ins.above ground,firmlly set, and mkd.and witnessed as described by the surveyor general.The stone is poorly mkd.therefore I destroy the old cor. and re-establish it in the same place as follows: Set an iron post,3 ft.long,3 ins.in dia.,18 ins.in the ground, on bed rock, and surrounded by mound of earth and stone,for standard cor.of secs.32 and 33,mkd.on brass cap T 30 S S 32 in NW.;and R 6 W S 33 in NE.quadrants;and raise a mound of stone,2 ft.base,1½ ft.high,N.of cor. The course of this mile is therefore S.89°54'W.,80.22 chs. No change in topography from original notes.
40.05	West, on a retracement line along N.bdy.sec.32. Fall 70 lks.S.of the standard $\frac{1}{4}$ sec.cor.on N.bdy.sec.32. which is a trachyte stone,10x11x6 ins.,above ground, firmly set and mkd.and witnessed as described by the surveyor general.The cor.stone is poorly mkd.therefore I destroy the old cor. and re-establish it in the same place as follows: Set an iron post,3 ft.long,1 in.in dia.,14 ins.in the ground, on rock, and surrounded by mound of earth and stone,for standard $\frac{1}{4}$ sec.cor.;mkd.on brass cap $\frac{1}{2}$ S 32 in N.half;and raise a mound of stone,2 ft.base,1½ ft.high N.of cor.The bearing trees are reported correctly in the old notes.
80.16	Fall 14 lks.S.of the standard cor.of secs.31 and 32, which is a trachyte stone,12x15x10 ins.,above ground, loosely set and mkd.and witnessed as described by the surveyor general.The stone is loosely set and poorly

Retracement 6th Standard Parallel S. through Range 6 W.-Contd.

Chains

marked therefore I destroy the old cor. and re-establish it in the same place as follows:
Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground, on rock, and surrounded by mound of earth and stone, for standard cor. of secs. 31 and 32; mkd. on brass cap

T 30 S S 31 in NW.; and

R 6 " S 32 in NE. quadrants; from which

A pinon pine, 14 ins. dia., bears N. 11° E., 202 lks.
dist.. mkd. T 30 S R 6 W S 32 B. T.

A pinon pine, 13 ins. in dia., bears N. 41° W., 158 lks.
dist.. mkd. T 30 S R 6 W S 31 B. T.

The course of the east half of this mile is therefore
N. 89° 00' W. 40.05 chs. and the west half is N. 89° 22' W., 40.11 chs.

No change in topography from the original notes.

November 1, 1910: At this cor. I set off 14° 19' S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38° 09' N., which is the proper lat. nearly.

West, on a retracement line along the N. bdy. sec. 31.

40.19 Fall 12 lks. South of the standard $\frac{1}{4}$ sec. cor. on N. bdy. sec. 31, which is sandstone, 5x6x5 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The stone is undersize and poorly mkd. and therefore I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 17 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for standard $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 31 in N. half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

80.64 Fall 209 lks. S. of the standard cor. of Sps. 30 S., Rs. 6 and

Retracement 6th Standard Parallel S.-through R.6 W.-Contd.

Chains

7. W., which is heretofore described.

The course of the east half of this mile is therefore
N.89°50'W., 40.19 chs. and the west half is N.87°13'W.,
40.50 chs.

November 1, 1910.

Dunphy Stewart

Instrumentman G.L.O.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Quinby Stewart
 Instrumentman G.L.O., ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Retracement 6th Standard Parallel South, through Range 6 West, S.L.R.& M., Utah, showing the respective capacities in which they acted:

Verne O. Nelson Alton Ivie, Chainmen.
 Maeser Dalley Harvey W. Elliott, Chainmen.
 Harvey W. Elliott, Moundman.
 Alton Ivie, Moundman.
 Nicholas L. Sheffield, Axman.
 Milo Nelson, Axman.
 Milo Nelson, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Quinby Stewart
 Instrumentman G.L.O., ~~United States Deputy Surveyor~~, in surveying all those parts or portions of the Retracement 6th Standard Parallel South, through Range 6 West

of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah

Maeser Dalley Verne O. Nelson, Chainmen.
Harvey W. Elliott Alton Ivie, Chainmen.
Alton Ivie, Moundman.
Harvey W. Elliott, Moundman.
Milo Nelson, Axman.
Nicholas L. Sheffield, Axman.
Milo Nelson, Flagman.

Subscribed and sworn to before me this 1st
 day of November 1910, }



Quinby Stewart
 Instrumentman G.L.O.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the day of _____, 190_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oath of transitman see book "Z¹¹" T.31 S.R.9 W.

of the _____

meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190_____ }



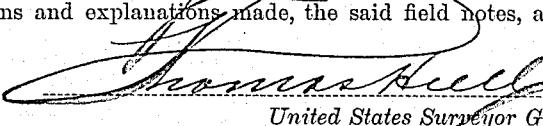
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914

The foregoing field notes of the ~~survey of~~ retrace of the Sixth Standard Parallel South, through Range No. 6 West of the Salt Lake Base and Meridian, Utah,

executed by _____, Quinby Stewart
under his contract No. _____, special instructions _____, dated August 6, 1910, \$100, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.


Quinby Stewart
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-385

FIELD NOTES

X.J.B.

OF THE SURVEY OF THE

Subdivision

of

Township No. 31 S., R. 6 W.

Of the Salt Lake Base and Meridian,
 State of Utah.

AS SURVEYED BY

John R. Stewart and Quinby Stewart, U.S. Transitmen
 Under assignment Group _____, dated August 6, 1910. *xxxxx*

Survey commenced October 26, 1910. *xxxxx*

Survey completed November 9, 1910. *xxxxx*

6-161

-61-30-06

Range
15-21-27

BOOK A 385

NAMES AND DUTIES OF ASSISTANTS.

Frank S. Allen Chainman

R. Bert Carter Chainman

Ruban W. Riley Moundman

Isaac R. Hayes Axman

Maeser Dalley Flagman

R. Bert Carter Chainman

Vern O. Nelson Chainman

Isaac R. Hayes moundman

Ruban W. Riley Axman

Maeser Dalley Flagman.

The first set of assistants above mentioned were used from

October 26, 1910, to November 1, 1910 and the second set for the

remainder of the township.

Maeser Dalley Chainman.

Harvey W. Elliott, Chainman.

Alton Ivie, Moundman.

Milo Nelson, Axman.

For preliminary affidavits see book "L" T.31 S., R. 7 w. for last named

BOOK A-385

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Frank S. Allen, R. Bert Carter, and Vern O. Nelson do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain, open, close, and turn over ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Subdivision T.31 S., R.6 E., S.L.B. & M., Utah.

R. Bert Carter, Chainman.

Vern O. Nelson

Frank S. Allen, Chainman.

Subscribed and sworn to before me this 26th

day of October 1910. *xxx*

John R. Stewart
Instrumentman G.L.O.

We, Ruban W. Riley and Isaac R. Hayes do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of Subdivision T.31 S., R.6 E., S.L.B. & M., Utah.

Isaac R. Hayes, Moundman.
Ruban W. Riley, Moundman.

Subscribed and sworn to before me this 26th

day of October 1910. *xxx*

John R. Stewart
Instrumentman G.L.O.

We, Isaac R. Hayes and Ruban W. Riley do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of Subdivision T.31 S., R.6 E., S.L.B. & M., Utah.

Ruban W. Riley, Axman.
Isaac R. Hayes, Axman.

Subscribed and sworn to before me this 26th

day of October 1910. *xxx*

John R. Stewart
Instrumentman G.L.O.

I, Maeser Dally, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivision T.31 S., R.6 E., S.L.B. & M., Utah.

Maeser Dally, Flagman.

Subscribed and sworn to before me this 25th

day of October 1910. *xxx*

John R. Stewart
Instrumentman G.L.O.

Subdivision of T.31 S., R.6 W.

Survey commenced October 26, 1910, and executed with a W and L.E. Gurley light mountains transit, No. 957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor-general for Utah, on August 6, 1910.

Note: For complete test of instrument see notes of W.bdy. this township.

At the cor. of secs. 25, 30, 31, and 36, on E.bdy. of Tp., I set off $38^{\circ}05'N.$, on the lat.arc; $12^{\circ}15'S.$, on the decl.arc; and at 7 h 44 m a.m., l.m.t., I determine a meridian with the solar.

Note: As the south bdy. of the Tp. is out of limits in alinement and measurement I run a sectional correction line as follows:

West, on a sectional correction line bet. secs. 25 and 36.

Over mountainous land; through dense sage and buck brush.

Desc.

23.20 Old road, bears N. $20^{\circ}E.$ and S. $20^{\circ}W.$ in bottom of canon, 300 ft. below cor., course N. $20^{\circ}E.$

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec.cor.. mtd. on brass cap $\frac{1}{2}$ S 25 in N half and S 36 in S half.; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

41.50 Conglomerate ledge, 20 ft. high, bears N. and S.

43.00 Top of ridge, 200 ft. above canon, bears NE and SW.

Desc.

51.70 Bottom of hollow, 100 ft. below ridge, course NE.

Asc.

63.50 Limestone butte, 20 ft. high, and 5.00 chs. long, bears N. and S.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

- 70.00 Top of spur, 50 ft. above hollow, bears N. and S.
 Desc.
 75.50 Bottom of hollow, 40 ft. below spur, course S.60° E.
 Asc.
 80.00 Set an iron post, 3 ft long, 2 ins. in dia., 24 ins. in the
 ground, for cor. of secs. 25, 26, 35, and 36, mkd. on brass cap
 T 31 S S 26 in NW.
 R 6 W S 25 in NE.
 S 36 in SE.; and
 S 35 in SW. quadrants; and raise a mound of stone
 2 ft. base, 1½ ft. high, N. of cor.
 Land rolling ridges and hollows, draining northward.
 Soil, rich clay loam about 18 ins. deep, subsoil clay and
 conglomerate rock.
 No timber.
 Undergrowth, sage and buck brush.
 Good grass for grazing.
 Mountainous land, or land covered with dense undergrowth.
 80.00 chs.
 West, on sectional correction line bet. secs. 26 and 35.
 Over rolling mountainous land; through dense sage, oak, and
 buck brush.
 Asc.
 15.00 Leave oak and buck brush and enter dense sage brush, and
 large volcanic boulders, bears N. and S.
 50.00 Top of rocky ridge, 200 ft. above cor., bears N. and S.
 Desc.
 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
 ground, for ¼ sec. cor., mkd. on brass cap ¼ S 26 in N half
 and S 35 in S half; and raise a mound of stone, 2 ft. base,
 1½ ft. high, N. of cor.

Subdivision of T.31 S., R.6 W.-Continued.

Chains 50.00	Bottom of hollow, 50 ft. below ridge, course S. Asc.
59.00	Top of ridge, 30 ft. above hollow, bears N. and S. Desc.
66.50	Bottom of hollow, 100 ft. below ridge, course S.5°W. Asc.
75.00	Top of ridge, 100 ft. above hollow, bears NW and SW. Desc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 26, 27, 34, and 35, mkd. on brass cap T 31 S S 27 in NW. R 6 W S 26 in NE. S 35 in SE.; and S 34 in SW quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, high rolling mountains. Soil, clay loam, medium texture, moist, from 2 to 3 ft. deep, subsoil, clay and rock. No timber, Undergrowth, oak, sage, and buck brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs. October 26, 1910: At this cor. I set off 12°20' S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°05' N., which is the proper lat. nearly.
9.20	West, on sectional correction line bet. secs. 27 and 34. Over mountainous land; through dense sage, oak, and buck brush. Desc. Enter heavy aspen timber, bears N. and S., NW

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
14.00	Leave aspen timber, bears N. and S.
25.00	Bottom of hollow, 100 ft. below cor., course N. Asc.
30.00	Top of spur, 50 ft. above hollow, bears N. and S. Desc.
39.50	Bottom of hollow, 50 ft. below spur, course N. Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap; S 27 in N half. and S 34 in S half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
48.00	Top of spur, 50 ft. above hollow, bears N. 20° E. and S. 20° W. Desc.
55.00	Bottom of hollow, 50 ft. below spur, course NE. Asc.
73.50	Top of rocky spur, 75 ft. above hollow, bears N. and S. Desc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground, on bed rock, and surrounded by mound of stone, for cor. of secs. 27, 28, 33, and 34, mkd. on brass cap T 31 S S 28 in NW. R 6 W S 27 in NE. S 34 in SE.; and S 33 in SW. quadrants; from which A mahogany, 4 ins. dia., bears N. 48° E., 102 lks. dist.. mkd. T 31 S R 6 W S 27 B T. A mahogany, 5 ins. dia., bears S. $74^{\circ}15'$ E., 140 lk. dist.. mkd. T 31 S R 6 " S 34 B T. A mahogany, 6 ins. dia., bears N. $73^{\circ}30'$ W., 127 lks. dist.. mkd. T 31 S R 6 W S 28 B T. And raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, high rolling mountains sloping northward and draining

Subdivision of T.31.S., R.6.W.-Continued.

Chains	<p>northward.</p> <p>Soil, clay loam, rich, soft and moist but mixed with considerable rock, about $1\frac{1}{2}$ ft. deep, on subsoil of clay.</p> <p>No timber.</p> <p>Undergrowth, oak, sage, buck, and mahogany brush.</p> <p>Some good grass in patches.</p> <p>Mountainous land, or land covered with dense undergrowth,</p> <p>80.00 chs.</p>
	October 26, 1910.
	<p>West, on a sectional correction line bet. secs. 28 and 33.</p> <p>Over mountainous land; through dense oak, sage, mahogany and buck brush.</p>
	<p>Desc.</p> <p>1.50 Bottom of hollow, 30 ft. below cor., course N.</p>
	<p>Asc.</p> <p>6.00 Top of ridge, 50 ft. above hollow, bears N. and S.</p>
	<p>Desc.</p> <p>20.00 Bottom of hollow, 150 ft. below ridge, course SW.</p>
	<p>Asc.</p> <p>30.00 Top of low spur, 20 ft. above hollow, bears N. and S.</p>
	<p>Desc.</p> <p>37.40 Enter scattering cedar and pinon pine timber, bears N. and S.</p>
	<p>39.50 Bottom of hollow, 50 ft. below spur, course NW.</p>
	<p>Asc.</p> <p>40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the <u>on solid rock</u> ground and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 28 in N half. and S. 33 in S half; from which</p>
	<p>A pinon pine, 26 ins. dia., bears N. 4° E., 126 lks. dist.. mkd. $\frac{1}{2}$ S 28 B T.</p> <p>A pinon pine, 4 ins. in dia., bears S. 67° W., 17 lks. dist.. mkd. $\frac{1}{2}$ S 33 B T.</p>

Subdivision of T.31. S., R.6 W.-Continued.

Chains	
60.00	Top of ridge, 50 ft. above hollow, bears N.70°W. and S.70°E.
75.00	Bottom of hollow, 100 ft. below spur, course S.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for cor. of secs. 28, 29, 32, and 33, mkd. on brass cap. T 31 S 38 in NW. R 6 W S 28 in NE. S 33 in SE.; and S 32 in SW. quadrants; from which A cedar, 5 ins. dia. bears N.15°E., 62 lks. dist..mkd.T 31 S R 6 W S 28 B T. A cedar, 8 ins. dia., bears S.14°30'E., 170 lks. dist..mkd.T 31 S R 6 W S 33 B T. A cedar, 6 ins. dia., bears S.5°30'W., 238 lks. dist..mkd.T 31 S R 6 W S 32 B T. A pinon pine, 7 ina. dia., bears N.16°30'W., 76 lks. dist..mkd.T 31 S R 6 W S 29 B T. Land, high rolling mountains. Soil, clay loam, from 1 ft. to 3 ft. deep, moist and soft but mixed with broken rock and gravel. Subsoil, clay and gravel. Timber, cedar and pinon pine. Undergrowth, sage, oak, buck, and mahogany brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth. 80.00 chs. October 27, 1910: At this cor. I set off 38°40'S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°05'N., which is the proper lat. nearly.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

West, on a sectional correction line bet. secs. 29 and 32.
Over mountainous land; through scattering cedar and pinon pine timber and dense sage, oak, and buck brush.

Desc.

- 16.00 Begin abrupt descent, bears N. and S.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 29 in, N half; and S 32 in S half; from which
 A cedar, 6 ins. dia., bears N. 2° 30' W., 50 lks.
 dist.. mkd. $\frac{1}{4}$ S 29 B T.
 A cedar, 6 ins. dia., bears S. 15° E., 47 lks.
 dist.. mkd. $\frac{1}{4}$ S 32 B T.
- 41.50 Wash, 100 lks. wide, 10 ft. deep, course N.
 Enter Buckskin Valley, bears N. and S.
 Asc. gently.
- 56.00 Old road, bears N. and S. Leave timber, bears N. and S.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for cor. of secs. 29, 30, 31, and 32, mkd. on brass cap T 31 S S 30 in NW.
 R 6 " S 29 in NE.
 S 32 in SE.; and
 S 31 in SW. quadrants; from which
 A lone cedar, 8 ins. dia., bears S. 76° 35' E., 338 lks.
 dist.. mkd. T 31 S R 6 W S 32 B T.
 and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- E. 41.50 chs. over mountainous land, sloping westward into Buckskin Valley. Soil, clay loam mixed with volcanic rock fragments, about 1 ft. deep, subsoil, gravel and rock. Timber, scattering cedar and pinon pine. " 38.50 chs.
 in Buckskin Valley rolling and sloping gently northward. Soil, rich loam mixed with rock; not very well suited for farming on account of the rocks. Subsoil, white clay hard

Subdivision of T. 31^{W.}, R. 6^{W.}-Continued.

Chains	pan subsoil about 18 ins. deep and in places rock. Only a few scattering cedars and pinon pine trees. Undergrowth on the entire mile is dense sage, oak and buck brush. Grass in patches.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	West, on a random line bet. secs. 30 and 31.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
84.59	Intersect W.bdy. of Tp., 32 lks. North of the cor. of secs. 30 and 31, heretofore described. Thence I run E.89°47'E., on a true line bet. secs. 30 and 31. Over rolling land in Buckskin Valley. through dense sage and oak brush. Desc. gradually.
1.25	Wash, 75 lks. wide, 4 ft. deep, course NE. Asc. gradually.
44.59	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 30 in N half. and S 31 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
50.00	Wash, 15 lks. wide, 6 ift. deep, course N.15°W.
84.59	The cor. of secs. 29, 30, 31, and 32. Land, rolling valley sloping gradually northward. Soil, sandy clay loam, soft and fertile but quite rocky in patches. about 18 ins. deep, subsoil gravel and clay. No timber. Undergrowth, dense sage brush and scattering oak. Good grass for grazing. Land covered with dense undergrowth, 84.59 chs.

October 27, 1910.

Sub.T.31 S.,R.6 WW.- Continued.

Chains.

October 28, 1910: At 7 h 44 m a.m., l.m.t., I set off $38^{\circ}05'N.$, on the lat.arc; $14^{\circ}56'S.$, on the decl.arc; and determine a meridian with the solar, at the cor.of secs.25,26,35, and 36.

Thence I run

$S.0^{\circ}01'E.$, on a true line bet.secs.35 and 36.

Over mountainous land; through dense undergrowth.

Asc.

.86 Top of spur, 10 ft.above cor., bears E.and W.

Desc.

3.41 Bottom of hollow, 80 ft.below ridge, course NE.

Asc.

4.16 Top of conglomerate ledge, 25 ft.high, bears N. $35^{\circ}E.$, and S. $35^{\circ}W.$

14.16 Top of spur, 100 ft.above hollow, bears N. $20^{\circ}E.$ and S. $20^{\circ}W.$

Desc.

32.26 Wash, 25 lks.wide, 2 ft.deep, in bottom of hollow, 100 ft. below spur, course E.

Asc.

40.00 Top of ridge, 150 ft.above hollow, bears E.and W.

Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for ~~cor.~~ cor.mkd.on brass cap $\frac{1}{2}$ S 35 in W half and S 36 in E half; and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.h high, W.of cor.

Desc.

58.56 Bottom of canon, 200 ft.below ridge, course E.

Asd.

71.01 Top of ridge, 350 ft.above canon, bears E.and W.

Desc.

80.86 Intersect S.bdy.of Tp., 76 lks.N. $89^{\circ}18'E.$, of the cor.of secs.1,2,35, and 36, heretofore described.

Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.35 and 36, mkd.on brass cap C.C T 32 S R 6 W S 1 S 2 in S half.

T 31 S S 35 in NW.; and

R 6 W S 36 in NW quadrants; and raise a mound

Sub.T.31 S., R.6 W.-Continued.

Chains

of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Note: I destroy all marks on the cor. of secs. 1, 2, 35, and 36, which pertain to secs. 35 and 36.

Land, high rolling mountains draining northeasterly into Fremont Canon.

Soil, gravelly loam; and about 2 ft. deep; subsoil gravel.

No timber.

Undergrowth, dense sage and oak brush.

Good grass in patches.

Mountainous land, or land covered with dense undergrowth, 80.86 chs.

N.0°01'W., bet. secs. 25 and 26.

Over mountainous land; through dense undergrowth.

Desc.

3.15 Bottom of canon, 240 ft. below cor. course S.75°E.

Asc.

17.00 Top of ridge, 275 ft. above canon, bears E. and W.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 26 in W half and S 25 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

40.15 Bottom of hollow, 290 ft. below ridge, course E.

Asc.

47.80 Top of ridge, 115 ft. above hollow, bears N.80°W. and S.80°E.

Desc.

61.60 Bottom of swale, 135 ft. below ridge, course N.70°E.

Asc.

74.00 Top of ridge, 175 ft. above swale, bears N.60°E. and S.60°W.

Desc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the

Subdivision of T.31 S., R.6 W.-Continued.

- Chains ground, for cor. of secs. 23, 24, 25, and 26., mkd. on brass cap
T 31 S S 23 in NW.
R 6 W S 24 in NE.
S 25 in SE.; and
S 26 in SW. quadrants; and raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Land high rolling mountains.
Soil, gravelly loam; 3rd rate. about 18 ins. deep, subsoil,
gravel.
No timber.
Undergrowth, dense sage and oak brush.
A very little grass in patches.
Mountainous land, or land covered with dense undergrowth
80.00 chs.
October 28, 1910: At this cor. I set off 13'00"S., on the
decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun
on the meridian, the resulting lat. is 38°06'N., which
is the proper lat. nearly.
- East, on a random line bet. secs. 24 and 25.
40.00 Set temp. & sec. cor.
79.99 Intersect E. bdy. of Tp., at the cor. of secs. 19, 24, 25, and
30, heretofore described.
Thence I run
West, on a true line bet. secs. 24 and 25.
Over mountainous land; through dense sage and oak brush.
Asc.
33.00 Top of ridge, 300 ft. above cor., bears N. and S.
Desc.
39.95 Set an iron post, 3 ft. long; 1 in. dia., 15 ins. in the
ground, on bed rock, and surrounded by mound of earth and
stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 24 in N half;
and S 25 in S half; and raise a mound of stone 2 ft. base, $1\frac{1}{2}$

Subdivision of T.31 S., R.6 W.-Continued.

Chains	high, N. of cor.
43.75	Wash, 10 lks. wide, 2 ft. deep, in bottom of hollow, 300 ft. below ridge, course N.
	Asc.
45.00	Old road, bears N. and S.
62.70	Top of spur, 200 ft. above hollow, bears N. 80° E. and S. 80° W.
	Desc.
79.90	The cor. of secs. 23, 24, 25, and 26. Land, high rolling mountains sloping and draining northerly. Soil, sandy clay loam about 2 ft. deep, and covered and mixed with cobble rock. Subsoil gravel.
	No timber.
	Undergrowth, sage and oak brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth.
79.90 chs.	
	N. 0° 1' W., bet. secs. 23 and 24.
	Over mountainous land; through dense sage and oak brush.
	Desc.
7.70	Bottom of hollow, 90 ft. below cor., course N. 80° E.
	Asc.
15.30	Top of ridge, 80 ft. above hollow, bears N. 80° E. and S. 80° W.
	Desc.
16.00	Enter scattering cedar and pinon pine, timber, bears E. and W.
40.00	Set an iron post, 23 ft. long, 1 in. in dia., 18 ins. in the ground, sunbed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 23 $\frac{1}{4}$ N W half and S 24 in E half; from which
	A cedar, 9 ins. dia., bears N. 36° 30' E., 54 lks. dist.. mkd. $\frac{1}{4}$ S 24 B T.
	No other trees within limits; raise a mound of stone,

Subdivision of T.31.S., R.6 W.-Continued.

Chains	2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
41.50	Ledge, 30 ft. high, bears E. and W.
42.65	Wash, 20 lks. wide, 4 ft. deep, in bottom of Fremont Canon, 275 ft. deep, course N. 75° W.
	Asc.
43.50	Old road, bears N. 75° W. and S. 75° E.
51.00	Top of spur, 90 ft. above canon, bears NE and SW. Desc.
59.50	Bottom of swale, 35 ft. below spur, course SW. Asc.
64.90	Top of spur, 70 ft. above swale, bears N. 20° E. and SW. Desc.
76.50	Head of swale, 30 ft. below spur, course S. 57° W. Asc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 14 ins. in the ground, on solid rock, and surrounded by mound of stone for cor. of secs. 13, 14, 23, and 24, mkd. on brass cap T 31 S S 14 in NW. R 6 W S 13 in NE. S 24 in SE.; and S 23 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, mountainous. Soil, sandy clay loam; about 2 ft. deep, rocky subsoil, gravel. Timber, scattering cedar and pinon pine. Undergrowth, dense sage and oak brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth.
80.00 chs.	

October 28, 1910.

October 29, 1910: At 7 h 44 m a.m., l.m.t., I set off $38^{\circ}00'$ N., on the Lat. arc; $13^{\circ}15'$ S., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 13, 14, 23, and

Subdivision of T.31.S., R.6 W.-Continued.

Chains	
	24.
	Thence I run
	East, on a random line bet. secs. 13 and 24.
40.00	Set temp. $\frac{1}{2}$ sec.cor.
79.80	Intersect E.bdy.of Tp., 7 lks.S.of the cor.of secs. 13, 18, 19, and 24, heretofore described.
	Thence I run
	S.89°57'W., on a true line bet. secs. 13 and 24.
	Over mountainous land; through dense undergrowth.
	Asc.
1.00	Top of ridge, 50 ft. abve cor., bears N.E. and SW.
	Desc.
13.60	Bottom of hollow, 200 ft. below ridge, course S.60°W.
	Asc.
16.50	Top of spur, 40 ft. above hollow, bears N. and S.
	Desc.
24.50	Bottom of hollow, 75 ft. below spur, course N.70°W. same as crossed at 13.60 chs.
	Asc.
30.00	Top of spur, 50 ft. above hollow, bears N. and S.
	Desc.
39.90	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec.cor.. mkd.on brass cap $\frac{1}{2}$ S. 13 in N half and S. 24 in S half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
60.00	Bottom of hollow, 60 ft. below spur, course S.70°W.
	Asc.
70.00	Top of spur, 60 ft. above hollow, bears N.60°E. and S.60°W.
	Desc.
79.80	The cor.of secs. 13, 14, 23, and 24. Land, high mountains steep slopes covered with rock. Soil, sandy clay loam about 18 ins. deep, mixed with vol- canic rock. No timber. Undergrowth, sage and oak brush.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	A very little grass.
	Mountainous land, or land covered with dense undergrowth, 79.80 chs.
	M.0°1'W., bet. secs. 13 and 14.
	Over mountainous land; through dense sage brush and oak brush and scattering cedar and pinon pine timber.
	Asc. over volcanic rocks.
10.00	Top of rd ridge, 10 ft. above sec.cor., bears E. and W. Desc.
20.50	Wash, 30 lks. wide, 2 ft. deep, in bottom of hollow, 75 ft. below ridge, course N.W. Asc.
30.00	Top of spur, 100 ft. above hollow, bears NW and SE. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 14 in W half and S 13 in E half; from which A pinon pine, 6 ins. dia., bears N.51'E., 118 lks. dist.. mkd. $\frac{1}{4}$ S 13 B T. No other trees within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
57.40	Bottom of hollow, 50 ft. below ridge, course S.80°W. Asc.
73.20	Top of ridge, 100 ft. above hollow, bears E. and SW. Leave timber, bears E. and SW. Desc.
78.00	Bottom of hollow, 70 ft. below ridge, course W. Asc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, mkd. on brass cap $\frac{1}{4}$ S 11 S 11 in NW.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	R 6 W S 12 in NE. S 13 in SE.; and S 14 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. "and, broken mountainous land; general drainage westerly. Soil, clay loam mixed with gravel and rock, about 14 ins. deep. Subsoil, gravel and rock. Timber, scattering cedar and pinon pine. Undergrowth, sage brush and oak brush. Good grass for grazing on north slopes. Mountainous land, or land covered with dense undergrowth, 80.00 chs. October 29, 1910: At this cor. I set off 13°20'S., on the decl. arc; and at 11 h 44 m a.m., l. t., I observe the sun on the meridian, the resulting lat. is 38°08'N., which is the proper lat. nearly. N.89°57'E., on a random line bet. secs. 12 and 13. 40.00 Set temp. $\frac{1}{4}$ sec. cor. 79.78 Intersect E. bdy. of Tp., 10 lks. N. of the cor. of secs. 7, 12, 13, and 18., heretofore described. Thence I run N.89°59'W., on a true line bet. secs. 12 and 13. Over mountainous land; through dense undergrowth. Desc. 10.00 Enter heavy aspen timber, bears N. and S. 15.00 Leave aspen timber, bears N. and S. 25.00 Bottom of hollow, 50 ft. below cor., course SW. Asc. 30.00 Leave oak brush and enter dense sage brush, bears N. and S. 35.00 Top of ridge, 50 ft. above hollow, bears NE and SW. Desc.
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Subdivision of T.31 S., R.6 W.-Continued.

Chains	
39;89	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, in solid rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 12 in N half and S 13 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Enter dense sage, oak, and buck brush, bears NE. and SW.
79.78	The cor. of secs. 11, 12, 13, and 14, . 600 ft. below ridge. Land, high mountains with steep slopes and rocky, slopes south and west. Soil, black loam mixed with lava rock about 1 ft. deep, subsoil gravel and rock. Timber, patch of aspen. Undergrowth, sage, oak, and buck brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, #9.78 chs.
	N. 0° 1' W., bet. secs. 12 and 11.
	Over mountainous land; through dense sage, oak, and mahogany brush. Asc.
12.80	Top of ridge, 300 ft. above cor., bears E. and W. Desc.
20.00	Bottom of hollow, 50 ft. below ridge, course W. Asc.
24.00	Enter dense mahogany timber, bears E. and W.
28.20	Top of spur, 100 ft. above hollow, bears E. and W. Desc.
30.00	Leave mahogany timber, bears E. and W.
34.25	Bottom of hollow, 200 ft. below ridge, course SW. Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the

Subdivision of T.31 S., R.6 W.-Continued.

- Chains
ground, for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 12 in W half
and S 12 in E half; and raise a mound of stone, 2 ft.
base, $1\frac{1}{2}$ ft. high, W.of cor.
- 47.60 Top of ridge, 300 ft. above hollow, bears E.and SW.
Desc.
- 58.30 Bottom of swale, 100 ft. below ridge, course SW.
Asc.
- 68.00 Top of spur, 100 ft. above swale, bears E.and W.
Desc.
- 80.00 Set an iron post, 3 ft.long, 2 ins.in dia., 16 ins.in the
ground, on bed rock, and surrounded by mound of earth and
stone, for cor.of secs.1,2,11, and 12,mkd.on brass cap
T 31 S S 2 in NW.
R 6 W S 1 in NE.
S 12 in SE.; and
S 11 in SW.quadrants; and raise a mound of stone,
2 ft.base, $1\frac{1}{2}$ ft. high, W.of cor.
Land, high mountains with steep rocky slopes draining west-
erly.
Soil, black loam rich and moist but mixed with volcanic
rock. Subsoil, clay and gravel.
Timber, mahogany.
Undergrowth, sage, oak, mahogany , and buck brush.
Good grass for grazing.
Mountainous or heavily timbered land, or land covered with
dense undergrowth, 80.00 chs.

October 29, 1910.

October 31, 1910: At 7 h 44 m a.m., l.m.t., I set off $58^{\circ}09'$
N., on the lat.arc; $13^{\circ}55' S.$, on the decl.arc; and determine
a meridian with the solar, at the cor.of secs.1,2,11, and
12.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

Thence I run
S.89°59' E., on a random line bet. secs. 1 and 12.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.98 Intersect E.bdy.of Tp.14 lks.South of the cor.of secs.
1,6,7, and 12, heretofore described.

Thence I run
S.89°55' W., on a true line bet. secs. 1 and 12.

Over mountainous land; through heavy pine and aspen
timber.

Asc.

5.00 Top of ridge, 20 ft. above cor., bears N.20°W. and S.20°E.
Leave timber, bears N.20°W. and S.20°E.

Enter dense sage and oak brush, bears N.20°W. and S.20°E
Desc.

59.99 Set an iron post, 3 ft. long, 1 in. in dia., 15 ins. in the
ground, on bed rock, and surrounded by mound of earth
and stone, for $\frac{1}{4}$ sec.cor.mkd.on brass cap $\frac{1}{4}$ S 1 in N half
and S 12 in S half; and raise a mound of stone, 2 ft.
base, $1\frac{1}{2}$ ft. high, N.of cor.

47.80 Bottom of hollow, 400 ft. below ridge, course S.20°W.

Asc.

55.70 Top of ridge, 100 ft. above hollow, bears N.30°E. and S.30°
W.

Desc.

79.98 The cor.of secs. 1, 2, 11, and 12. 200 ft. below ridge,
Land, high steep mountains rocky slopes.

Soil, black loam mixed with volcanic rock; subsoil, clay
and gravel.

Timber, pine and aspen on E.3.00 chs.

Undergrowth, oak, sage, mahogany and buck brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with
dense undergrowth, 79.98 chs.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
	N.0°1'W., on a true line bet. secs. 1 and 2.
	Over mountainous land; through dense sage and oak brush.
	Desc.
14.50	Bottom of hollow, 70 ft. below cor., course S.50°W.
	Asc.
21.10	Top of spur, 95 ft. above hollow, bears N.70°W. and S.70°E.
	Desc.
25.00	Bottom of swale, 50 ft. below spur, course S.80°E.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 2 in W half and S 1 in E half.; from which
	A pinon pine, 5 ins. dia., bears S.86°30'E., 100 lks dist.. mkd. 1 S 1 B T.
	A pinon pine, 14 ins. dia., bears S.55°30'W., 185 lks dist.. mkd. 2 S 2 B T.
42.20	Top of ridge, 200 ft. above hollow, bears N.75°W. and S.75°E
	Desc.
59.00	Foot of descent, 200 ft. below ridge, bears N.40°W. and S.40°E.
	Enter cove in mountains.
82.90	Old road, bears E. and W.
94.70	Wash, 30 lks. wide, 2 ft. deep, course W.
	Asc.
95.87	Intersect 6th Standard Parallel South, 16.50 chs. N.89°56'E. of the standard $\frac{1}{4}$ sec. cor., on S. bdy. sec. 35, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, for closing cor. of secs. 1, and 2, mkd. on brass cap C C T 30 S R 6 W S 35 S:36 in N. half, R 6 W S 1 in SE.; and
	T 31 S S 2 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.
	Corner set on solid rock and surrounded by mound of earth and stone.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	Land rolling mountainous land, Soil, black loam mixed with volcanic rock. Subsoil, clay. Timber, a few scattering cedar and pinon pine trees. Undergrowth, sage and oak brush. A very little grass. Mountainous land, or land covered with dense undergrowth, 95.87 chs.
	October 31, 1910: At this cor. I set off 14°00' S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting plat. is 38°09' N., which is the proper lat. nearly.
	From the cor. of secs. 26, 27, 34, and 35, I run S. 0°1'E., on a true line bet. secs. 34 and 35. Over mountainous land; through dense sage and oak brush. Asc.
10.00	Top of ridge, 30 ft. above cor., bears N. 80° E. and S. 80° W. Desc.
26.25	Bottom of hollow, 100 ft. below ridge, course NE. Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 34 in W half and S 35 in E half; from which An aspen, 5 ins. dia., bears S. 10°30' E., 275 lks dist.. mkd. $\frac{1}{4}$ S 35 B T. An aspen, 5 ins. dia., bears S. 11°30' W., 255 lks. dist.. mkd. $\frac{1}{4}$ S 34 B T.
42.75	Enter heavy aspen timber, bears E. and W.
47.00	Leave timber, bears E. and W.
53.00	Leave undergrowth and heavy aspen timber, bears E. and W.
56.00	Leave timber and enter dense oak and sage brush, bears E. and W.

Subdivision of T.31 S., R.6 W.-Continued.

Chains 76.00	Top of ridge, 400 ft. above hollow, bears N.50°E. and S.50°W. Desc.
81.74	Intersect S.bdy.of Tp., 4.28 chs.N.89°17'E., of the cor.of secs.2,3,34, and 35, heretofore described. Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.34 and 35, mkd.on brass cap C C T 32 S R 6 W S 2 S 3 in S Half. T 31 S S 34 in NW.; and R 6 W S 35 in NE.quadrants; and raise a mound of stone, 2 ft.base, 1½ ft.high, N.of cor. Note:I destroy all marks on the cor.of secs.2,3,34, and 35, which pertain to secs.34 and 35. Land, high rolling mountains. Soil, rich black loam mixed with volcanic rock about 18 ins.deep, subsoil, clay and gravel. Timber, aspen in patches. Undergrowth, oak, and sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 81.74 chs.
	October 31, 1910.
	November 1, 1910: At 7 h 44 m a.m., l.m.t., I set off 38°05' N., on the lat.arc; 14°14'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.26,27,34, and 35. Thence I run N.0°1'W., bet.secs.26 and 27. Over rolling mountainous land; through dense sage and scat- tering buck brush. Desc.
15.00	Bottom of swale, 50 ft.below cor., course W. Asc.
29.00	Top of spur, 50 ft.above swale, bears N.70°W.and S.70°E.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
	Desc.
57.60	Bottom of hollow, 50 ft. below spur, course NW. Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1 sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 27 in W half and S 26 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
57.00	Top of spur, 50 ft. above swale, bears E. and W. Desc.
68.26	Bottom of hollow, 50 ft. below spur, course S.60°W. Asc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor.of secs.22,23,26, and 27,mkd.on brass cap T 31 S S 22 in NW. R 6 W S 23 in NE. S 26 in SE.; and S 27 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, high rolling ridges and hollows, draining northwesterly Soil, clay loam about 1 ft. deep, mixed with volcanic rock. subsoil, clay and rocks. No timber. Undergrowth, oak and sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	East, on a random line betsecs.23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.96	Intersect N. and S.line, at the cor.of secs.23,24,25, and 26. Thence I run West, on a true line betsecs.23 and 26. Over mountainous land; through dense undergrowth.

Subdivision of T. 51 S., R. 6 W. -Continued.

Chains	
	Desc.
20.30	Bottom of hollow, 90 ft. below cor., course N. 20° E.
	Asc.
39.98	Set an iron post, 3 ft. long, 1 in. in dia., 19 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 23 in N half and S 26 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
44.00	Top of ridge, 250 ft. above hollow, bears N. 20° E. and S. 20° W.
	Desc.
58.90	Bottom of hollow, 160 ft. below ridge, course W.
	Asc.
74.60	Top of spur, 290 ft. above hollow, bears N. 30° W. and S. 30° E.
	Desc.
79.96	The cor. of secs. 22, 23, 26, and 27. Land, high rolling mountains with rocky slopes draining northward into Fremont canon. Soil, sandy and clay loam about 1 ft. deep, mixed with rock and gravel; Gravelly subsoil. No timber. Undergrowth, sage and oak brush. Good grass for grazing in patches. Mountainous land, or land covered with dense undergrowth.
79.96 chs.	November 1, 1910: At this cor. I set off 14° 19' S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38° 06' N., which is the proper lat. nearly.
	M. O. 1' W., bet. secs. 22 and 23.
	Over mountainous land; through dense undergrowth.
	Asc.
10 00	Top of ridge, 50 ft. above cor., bears NW and SE.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

Desc.

34.25 Bottom of hollow, 300 ft. below ridge, course N.70°E.

Asc.

36.50 Top of spur, 25 ft. above hollow, bears E. and W.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 22 in W half and S 23 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

41.00 Bottom of hollow, 25 ft. below spur, course E.

Asc.

46.20 Top of ridge, 100 ft. above hollow, bears NE. and SW.

Desc. abruptly.

70.00 Enter scattering cedar and pinon pine timber, bears E. and W.

75.00 Bottom of hollow, 400 ft. below ridge, course NE.

Desc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, mkd. on brass cap
T 31 S S 15 in NW.

R 6 W S 14 in NE.

S 23 in SE.; and

S 22 in SW. quadrants; from which

A pinon pine, 10 ins. dia, bears N.62°E., 155 lbs.
dist.. mkd. T 31 S R 6 W S 14 B T.A pinon pine, 4 ins. dia., bears S.55°30'E., 32 lbs.
dist.. mkd. T 31 S R 6 W S 23 B T.A pinon pine, 5 ins. dia., bears S.65°W., 2 lbs.
dist.. mkd. T 31 S R 6 W S 22 B T.A pinon pine, 4 ins. dia., bears N.12°W., 129 lbs.
dist.. mkd. T 31 S R 6 W S 15 B T.

Land, high rough and steep ridges and hollows draining northward.

Soil, loam mixed with rock, about 1 ft. deep, subsoil volcanic rock and gravel.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

Timber, scattering cedar and pinon pine on N.10.00 chs.

Undergrowth, sage oak, and buck brush.

Light growth of grass.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

East, on a random line bet.secs.14 and 23.

40.00 Set temp. $\frac{1}{2}$ sec.cor.

79.94 Intersect N. and S.line, 4 lks.N.of the cor.of secs.13,14,
23, and 24.

Thence I run

N.89°58'W., on a true line bet.secs.14 and 23.

Over mountainous land; through dense undergrowth, and
scattering cedar and pinon pine timber.

Asc.

14.50 Top of spur, 50 ft.above cor., bears N. and S.

Desc.

32.75 Bottom of hollow, 100 ft.below spur, course S.10°W.

Asc.

39.95 Set an iron post, 3 ft.long, 1 in.in dia., 16 ins.in the
ground, on solid rock, and surrounded by mound of earth
and stone, for $\frac{1}{2}$ sec.cor.. mkd.on brass cap $\frac{1}{2}$ S 14 in N half
and S 25 in S half; from which

A pinon pine, 8 ins.dia., bears N.17°W., 157 lks.

dist..mkd. $\frac{1}{2}$ S 14 B T.

A pinon pine, 8 ins.dia., bears S.63°W., 165 lks.

dist..mkd. $\frac{1}{2}$ S 23B T.

40.90 Top of spur, 120 ft.above hollow, bears N. and S.

Desc.

67.80 Wash, 30 lks.wide, 8 ft.deep, in bottom of Fremont Canon, 130
ft.below spur, course N.75°W..

Asc.

69.25 Old road, bears N.75°W.and S.75°E.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

- 74.00 Top of spur, 30 ft. above canon, bears N.25°W. and S.25°E.
Desc.
74.90 Bottom of hollow, 20 ft. below spur, course N.10°E.
Asc.
79.94 The cor. of secs. 14, 15, 22, and 23.
Land, mountainous.
Soil, clay and sandy loam; about 1 ft. deep, subsoil, gravel.
Timber, cedar and pinon pine.
Undergrowth, sage and oak brush.
A very little grass.
Mountainous land, or land covered with dense undergrowth,
79.94 chs.

November 1, 1910.

November 2, 1910: At 7 h 44 m a.m., l.m..t, I set off $38^{\circ}07'$ N., on the lat. arc; $14^{\circ}34' S.$, on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 14, 15, 22, and 23.

Thence I run

N.0°1'W., bet. secs. 14 and 15.

Over mountainous land; through dense sage brush and scattering cedar and pinon pine timber. Desc.

6.00 Foot. of descent, bears NW and SE. Enter Fremont Canon.

7.05 Old road, bears NW and SE.

9.00 Wash, 20 lks. wide, 2 ft. deep, in bottom of Fremont Canon, 100 ft. below cor., course N.45°W.

Asc. abruptly.

35.70 Top of ascent, 480 ft. above canon, bears NE and SW.

Thence over flat top ridge.

Enter heavy cedar and pinon pine timber, bears NE and SW.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 15 in W half;

Subdivision of T.31 S., R.6 W.-Continued.

	Chains	and S 14 in E half; from which A pinon pine, 12 ins. dia., bears N.46°E., 21 lks. dist..mkd. 1 S 14 B T. A pinon pine, 12 ins. dia., bears S.77°W., 68 lks. dist..mkd. 1 S 15 B T.
42.70		Leave top of ridge, bears E. and W. Desc. abruptly. Leave timber, bears E. and W. Enter dense oak and buck brush, bears E. and W.
65.40		Wash, 30 lks. wide, 3 ft. deep, in bottom of canon, 275 ft. below ridge, course S.85°W. Leave buck and oak brush and enter sage brush, bears E and W. Asc. abruptly.
78.10		Top of steep ascent, bears E and W., 200 ft. above canon. Asc. gradually over rolling mesa. Enter scattering cedar and pinon pine timber, bears E. and W.
80.00		Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 10, 11, 14, and 15, mkd. on brass cap T 31 S S 10 in NW. R 6 W S 11 in NE. S 14 in SE.; and S 15 in SW. quadrants; from which A pinon pine, 7 ins. dia., bears N.15°E., 125 lks. dist..mkd. T 31 S R 6 W S 11 B T. A cedar, 16 ins. dia., bears S.85°E., 49 lks. dist..mkd. T 31 S R 6 W S 14 B T. A pinon pine, 6 ins. dia., bears S.87°W., 108 lks. dist..mkd. T 31 S R 6 W S 15 B T. A cedar, 5 ins. dia., bears N.7°W., 243 lks. dist..mkd. T 31 S R 6 W S 10 B T. Land, S.78.10 chs. over rough mountainous land; with steep rocky slopes. drains W. Soil, sandy clay covered and mixed with rocks and boulders. Subsoil, clay. Timber, cedar and

Subdivision of T.31 S., R.6 W.-Continued.

- Chains pinon pine.Undergrowth, sage, oak, and buck brush.
- 11.90 chs.on rolling mesa.Soil, rich sandy loam about 2 ft. deep, subsoil gravel.Timber, cedar and pinon pine.Undergrowth, sage .light growth of grass.
- S.89°58'E., on a random line betsecs.11 and 14.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.08 Intersect N.and S.line,10 lks.N.of the cor.of secs.11,12 and 13, and 14.
- Thence I run
- N.89°54'W.; on a true line betsecs.11 and 14.
- Over mountainous land;through dense undergrowth.
- Desc.
- 19.10 Enter scattering cedar and pinon pine timber,bears N.and S.
- 30.00 Enter ledges,bears N.and S.
- 33.50 Bottom of canon,1000 ft.below cor.,course SW.
Asc.over ledges.
- 36.80 Foot of ledge,100 ft.high,bears NE and SW.
- 40.04 Set an iron post,3 ft.long,1 in.in dia.,20 ins.in the ground, on bed rock, and surrounded by mound of earth and stone,for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 11 in N half; and S 14 in S half;from which
A pinon pine,18 ins.dia.,bears N.5°E.,15 lks.
dist.mkd. $\frac{1}{4}$ S 11 B T.
- A pinon pine,10 ins.dia.,bears S.45°E.,60 lks.
dist..mkd. $\frac{1}{4}$ S 14 B T.
- 50.00 Leave ledges,bears N.and S.
- 77.00 Top of ascent,200 ft.above canon,bears N.60°E.and S.60°W
Thence over mesa.
- 80.08 The cor.of secs.10,11,14, and 15.
Land,mountainous very rough covered with ledges and rocks.
Soil,rich loam mixed with rock and gravel.Subsoil rock.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
	Timber, cedar and pinon pine.
	Undergrowth, sage and oak brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.08 chs.
	N.0°1'W., bet. secs. 10 and 11.
	Over rolling mesa; through scattering timber and dense sage and oak brush.
	Desc. gradually.
5.90	Leave timber, bears N.60°E. and SW.
18.10	Old road, bears NE and SW.
59.40	Bottom of swale, 50 ft. below sec.cor., course N.67°W. Asc. gradually.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on hard pan, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.mkd. on brass cap $\frac{1}{4}$ S 10 in W half. and S 11 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor.
61.65	Bottom of wash, 100 lks. wide, 3 ft. deep, course W. Leave mesa, bears E. and W. Asc.
80.00	Point 100 ft. above mesa. Set an iron post, 3 ft. long, $\frac{3}{4}$ ins. in dia., 16 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for cor.of secs. 2, 3, 10, and 11, mkd.on brass cap T 31 S 8 3 in NW. E 6 W S 2 in NE. S 11 in SE.; and S 10 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. S.61.65 chs. over gently rolling mesa, gradual slope to the northwest. Soil, sandy clay loam, rich and soft, about 2 ft.

Subdivision of T.31 S. R.6 W.-Continued.

- Chains deep patches of rock. Scattering cedar and pinon pine timber on S.3.90 chs.
- N.18.35 chs. on gradual south slope of ridge, covered with volcanic rock. Soil, clay loam about 1 ft. deep, mixed with gravel. No timber.
- Undergrowth on entire mile oak and sage brush.
- Mountainous land, or land covered with dense undergrowth, 80.00 chs.
- November 2, 1910: At this cor. I set off 14°39'S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°09'N., which is the proper lat. nearly.
-
- S.89°54'E., on a random line bet secs. 2 and 11.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.12 Intersect N. and S. line, 10 lks. N. of the cor. of secs. 1, 2, 11, and 12.
- Thence I run
- N.89°50'W., on a true line bet. secs. 2 and 11.
- Over mountainous land; through dense sage and oak brush and scattering cedar and pinon pine timber.
- Desc.
- 19.00 Wash, 30 lks. wide, 3 ft. deep, in bottom of hollow, 100 ft. below sec.cor., course SW.
- Asc.
- 35.00 Top of ridge, 75 ft. above hollow, bears N. and S.
- Desc.
- 40.06 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 2 in N half and S 11 in S half; from which
- A pinon pine, 8 ins. dia., bears N.5°W., 75 lks. dist.. mkd. $\frac{1}{4}$ S 2 B.T.

Subdivision of T.31 S., R.6 W.-Continued.

- Chains A pinon pine, 6 ins. dia. n bears S.12° E., 64 lks.
 dist..mkd. $\frac{1}{4}$ S 11 B T.
- 46.60 Desc. more abruptly, bears NE and SW.
- 56.35 Bottom of hollow, 75 ft. below ridge, course S.30°W.
 Asc.
- 71.00 Top of spur, 50 ft. above hollow, bears N. and S.
 Leave timber, bears N. and S.
 Desc.
- 80.12 The cor. of secs. 2, 3, 10, and 11.
 Land, rolling hills and hollows, south slope, drainage SW.
 Soil, black loam mixed with rock and gravel about 16 ins.
 deep; subsoil gravel and clay.
 Timber, scattering cedar and pinon pine on E. 71.00 chs.
 Undergrowth, sage and oak brush on entire mile.
 Good grass for grazing in patches.
 Mountainous land, or land covered with dense undergrowth,
 80.12 chs.
-
- N.0°E.W., on a true line bet. secs. 2 and 3.
 Over mountainous land; through dense sage and oak brush.
 Asc.
- 14.00 Enter scattering cedar and pinon pine timber, bears E.
 and W.
- 22.70 Top of spur, 100 ft. above cor., bears E. and W.
 Desc.
- 32.50 Bottom of hollow, 100 ft. below ridge, course S.70°W.
 Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the
 ground, on bed rock, and raise a mound of stone and earth
 around cor., for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 3 in W
 half and S 2 in E half; from which
 A pinon pine, 8 ins. dia., bears S.17° E., 145 lks.
 dist..mkd. $\frac{1}{4}$ S 2 B T.

Subdivision of T.3M S .R.6 W.-Continued.

Chains.	A pinon pine, 4 ins. dia., bears N.25°W., 72 lks. dist..mkl. $\frac{1}{2}$ S 3 B T.
45.00	Top of ridge, 200 ft. above hollow, bears NE and SW. Desc.
54.00	Bottom of hollow, 40 ft. below ridge, course SW. Asc.
58.40	Top of rocky ridge, 100 ft. above hollow, bears E. and W. Desc.
95.00	Bottom of hollow, 300 ft. below ridge, course N.70°W. Asc.
95.47	Intersect 6th Standard Parallel South, 16.84 chs. N.89°40' E. of the standard $\frac{1}{4}$ sec. cor., on S. bdy. of sec. 34, hereto- fore described. Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for closing cor. of secs. 2 and 3, mkl. on brass cap C C T 30 S R 6 W S 34 S 35 in N. half R 6 W S 2 in SE.; and T 31 S S 3 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Land, broken and rough with steep slopes covered with volcanic rock. Soil, sandy loam mixed with volcanic rock. Subsoil gravel and clay. Timber, cedar and pinon pine. Undergrowth, sage and oak brush. A very little grass. Mountainous land, or land covered with dense undergrowth, 95.47 chs.

November 2, 1910.

John R Stewart

Instrumentman G.L.O.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

Survey commenced November 1, 1910, and executed with a Young and Sons light mountain transit, No. 7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined tested on the meridian at Salt lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

At the cor. of secs. 27, 28, 33, and 34, latitude $38^{\circ}05'09''$ N., longitude $112^{\circ}29'57''$ W., At 4 h 45.6 m p.m., l.m.t., I observe Polaris at eastern elongation in accordance with the Manual, and mark a point thereof on a wooden plug set in the ground, 5.00 chs.N. of the cor.

November 1, 1910.

November 2, 1910: At 7 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}29.4'$ to the west, and rmkd. a point in the meridian thus determined, by a cross on a stone, firmly set in the ground, 5.00 chs.N. of the cor.

At 7 h 44 m a.m., l.m.t., I set off $38^{\circ}05'N.$, on the lat. arc; $14^{\circ}34'S.$, on the decl. arc; and determine a meridian with the solar and mark a point thereof by cutting a small groove in the stone already set 5.00 chs.N. of the cor.; this mark falls 0.29 ins. east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

Note: For complete test of instrument see notes of Retracement 6th Standard Parallel South, through Range 6 West, Thence I run

S. $0^{\circ}2'E.$, on a true line bet. secs. 33 and 34.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	Over mountainous land; through dense sage and oak brush.
	Asc.
14.00	Top of ridge, 50 ft. above cor., bears E. and W. Desc. through scattering cedar and pinon pine timber.
29.00	Bottom of hollow, 500 ft., below ridge, course W. Asc.
30.00	Leave cedar and pinon pine timber, bears E. and W. Enter dense sage brush and scattering oak, buck and mahogany brush, bears E. and W.
55.00	Top of rocky spur, 200 ft. above hollow, bears NW. and SE. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 15 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for 1 sec. cor.. mkd. on brass cap 1 S 33 in W half and S 34 in E half; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
40.50	Bottom of hollow, 100 ft. below spur, course NW. Leave sage and enter dense oak and buck brush, bears NW and SE. Asc.
54.00	Top of ridge, 400 ft. above hollow, bears E. and W. Leave oak, buck and mahogany brush and enter dense sage brush, bears E. and W. Desc.
61.00	Bottom of hollow, 50 ft. below ridge, course SW. Asc.
31.72	Intercept S. bdy. of Tp., 4.27 chs. East of the cor. of secs. 3, 4, 33, and 34, heretofore described. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 33 and 34, mkd. on brass cap C C T 32 S R 6 W S 3 S 4 in S half. T 31 S S 33 in NW.; and R 6 W S 34 in NE.; quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Note: I destroy all marks on the cor. of secs. 3, 4, 33, and 34.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

which pertain to secs. 23 and 34.

Land, rough and broken with steep rocky slopes.

Soil, black loam about 1 ft. deep, and mixed with volcanic rock. Subsoil, clay and gravel.

Timber, cedar and pinon pine.

Undergrowth, sage, oak, buck, and mahogany brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth, 81.72 chs.

N.0°2'W., bet. secs. 27 and 28.

Over mountainous land; through dense undergrowth.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 28 in W half and S 27 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, "W. of cor.

41.50 Bottom of hollow, 250 ft. below cor., course N.70°E.

Asc.

50.00 Top of ridge, 100 ft. above hollow, bears N.60°E. and S.60°W.

Desc.

72.75 Bottom of hollow, 50 ft. below ridge, course NE.

Asc.

80.00 Set an iron post, 3 ft. long; 2 ins. in dia., 20 ins. in the ground, on bed rock, and surrounded by mound of stone, and earth, for cor. of secs. 21, 22, 27, and 28, mkd. on brass cap T 31 S S 21 in NW.

R 6 " S 22 in NE.

S 27 in SE; and

S 28 in SW. quadrants; from which

A cedar, 6 ins. dia., bears S.29°30'W., 159 lbs.

P.C. dist. mkd. T 31 S R 6 " S 28 B.T.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	No other trees within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Land, high mountains with steep rocky slopes.
	Soil, clay and gravelly about 14 ins. deep, mixed and covered with volcanic rock. Subsoil, gravel and rock.
	Timber, a few scattering cedar and pinon pine trees.
	Undergrowth, dense oak, sage, mahogany and buck brush.
	Good grass in patches.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	November 2, 1910: At this cor. I set off 14°39' S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°06' N., which is the proper lat. nearly.
	East, on a random line bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, at the cor. of secs. 22, 23, 26, and 27.
	Thence I run
	West, on a true line bet. secs. 22 and 27.
	Over mountainous land; through dense sage brush and scattering oak and buck brush.
	Desc.
29.00	Bottom of hollow, 300 ft. below cor., course N. 20°W.
	Enter scattering cedar and pinon pine timber, bears N. 20° W. and S. 20° E.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 22 in N half, and S 27 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
49.00	Top of ridge, 500 ft. above hollow, bears NE and SW.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

Desc.

71.00 Bottom of hollow, 300 ft. below ridge, course NE.

Asc.

80.00 The cor. of secs. 21, 22, 27, and 28.

Land, high mountains with long, steep, rocky slopes.

Soil, black loam rich and soft mixed with volcanic rock about 1.5 ins. deep, subsoil, clay and gravel.

Timber, scattering cedar and pinon pine.

Undergrowth, dense sage and scattering oak, buck and mahogany brush.

Good grass in patches.

Mountainous land, or land covered with dense undergrowth,

80.00 chs.

N.0°2'W., bet. secs. 21 and 22.

Over mountainous land; through scattering cedar and pinon pine timber and dense sage brush.

Asc. over volcanic boulders.

15.00 Ridge, 100 ft. above cor., bears E. and W. Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 21 in W half and S 22 in E half; from which

A pinon pine, 6 ins. dia., bears S.20°E., 30 lks.

dist.. mkd. $\frac{1}{4}$ S 22 B T.

A pinon pine, 8 ins. dia., bears S.75°W., 80 lks.

dist.. mkd. $\frac{1}{4}$ S 21 B T.

48.50 Enter heavy cedar and pinon pine timber, bears E. and W.

48.50 Bottom of hollow, 400 ft. below sec. cor., course E.

Asc.

72.00 Top of ridge, 500 ft. above hollow, bears N.60°E. and S.60°W.

Desc.

Leave heavy and enter scattering timber, bears N.60°E. and S.60°W.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the

Subdivision of T.31 S., R.6 W.-Continued.

Chains

Ground, for cor. of secs. 15, 16, 21, and 22, mkd. on brass cap
 T 31 S S 16 in NW.
 R 6 W S 15 in NE.
 S 22 in SE.; and
 S 21 in SW. quadrants; from which
 A pinon pine, 7 ins. dia., bears S. 72° E., 404 lks.
 dist.. mkd. T 31 S R 6 W S 22 B T.
 A pinon pine, 4 ins. dia., bears S. 9° 30' W., 112 lks.
 dist.. mkd. T 31 S R 6 W S 21 B T.
 No other trees within limits; raise a mound of stone, 2 ft
 base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, high mountains with long steep rocky slopes. Drains
 and slopes east.
 Soil, black loam about 18 ins. deep, mixed with rock and
 gravel. Subsoil, clay and gravel.

Timber, cedar and pinon pine.

Undergrowth, dense sage and scattering oak

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with
 dense undergrowth, 80.00 chs.

November 2, 1910.

November 3, 1910: At 7 h 44 m a.m., l.m.t., I set off 38° 07' N.,
 on the lat. arc; 14° 53' S., on the decl. arc; and determine a mer-
 idian with the solar, at the cor. of secs. 15, 16, 21, and 22.
 East on a random line bet. secs. 15 and 22.

40.00 Set temp. 1 sec. cor.

80.02 Intersect N. and S. line, 5 lks. S. of the cor. of secs.

14, 15, 22, and 23.

Thence I run

S. 89° 58' W., on a true line bet. secs. 15 and 22.

Over mountainous land; through scattering cedar and
 pinon pine timber and dense sage and oak brush.

Asc.

24.00 Top of spur, 200 ft. above cor., bears N. and S.

Enter dense oak and buck brush and scattering mahogany,
 bears N. and S.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	Leave dense sage brush, bears N and S.
	Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 25 ins. in the ground, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 15° E half and S 22° in S half; from which A pinon pine, 7 ins. dia., bears N.42°E., 29 lbs. dist. mkd. $\frac{1}{2}$ S 15° E .T.
	A pinon pine, 9 ins. dia., bears S.10°E., 99 lbs. dist. mkd. $\frac{1}{2}$ S 22° E T.
48.00	Bottom of hollow, 100 ft. below spur, course NE . Asc.
68.50	Top of ridge, 200 ft. above hollow, bears N.20°E. and S.W. Desc.
80.02	The cor. of secs. 15, 16, 21, and 22. Land, high rough mountains, steep rocky slopes . Soil, clay and black loam mixed with rock, about 1 ft. deep, subsoil gravel and rock. Timber, cedar and pinon pine. Undergrowth, oak, sage, mahogany, and buck brush. Good grass for grazing in patches. Mountainous land, or land covered with dense undergrowth, 80.02 chs.
	N.0°21'W., bet. secs. 15 and 16.
	Over mountainous land; through scattering cedar and pinon pine timber and dense oak and sage brush.
	Desc.
12.10	Bottom of hollow, 60 ft. below cor., course NW. Asc.
17.20	Top of spur, 50 ft. above hollow, bears E. and W. Desc.
24.85	Bottom of hollow, 54 ft. below spur, course W.

Subdivision of T. 31 S., R. 6 W.—Continued.

Chains	
	Asc.
50.00	Enter heavy cedar and pinon pine timber, bears E. and W.
53.80	Top of spur, 100 ft. above hollow, bears NW and SE.
	Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on rock, and surrounded by mound of earth and stone, for 1/4 sec. cor. mkd. on brass cap $\frac{1}{4}$ S 16 in W half and S 15 in E half; from which A cedar, 11 ins. dia., bears N. 56° E., 21 lks. dist.. mkd. $\frac{1}{4}$ S 15 B T. A cedar, 14 ins. dia., bears N. 35° W., 35 lks. dist.. mkd. $\frac{1}{4}$ S 16 B T.
69.00	Old road, bears E. and W.
69.90	Wash, 25 lks. wide, 5 ft. deep, in bottom of Fremont Canon, 400 ft. below spur, course W. Creek, 3 lks. wide, 2 ins. deep, in bottom of wash. This water rises about $\frac{1}{2}$ mile up the canon and sinks about $\frac{1}{2}$ mile west of this point.
	Asc.
70.90	Old pole fence, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. in the dia., 14 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. secs. 9, 10, 15, and 16 mkd. on brass cap T 31 S S 9 in NW. R 6 W S 10 in NE. S 15 in SE.; and S 16 in SW. quadrants; from which A pinon pine, 7 ins. dia., bears N. 70° E., 121 lks. dist.. mkd. T 31 S R 6 W S 10 B T. A cedar, 8 ins. dia., bears S. 77° 30' E., 97 lks. dist.. mkd. T 31 S R 6 W S 15 B T. A cedar, 5 ins. dia., bears S. 20° W., 29 lks. dist.. mkd. T 31 S R 6 W S 16 B T. A cedar, 8 ins. dia., bears N. 50° W., 82 lks.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	dist..mkd.T 31 S R 6 W S 9 B T. S.70.00 chs.over rough mountains land;slopes NW drains NW. Soil,sandy clay 2 ft.deep,covered with rocks and mixed with rock.Gravelly subsoil.Timber,cedar and pinon pine.Undergrowth,sage oak and mahogany. Light growth of grass W.10.00 on S.slope of rocky ridge.Sandy clay soil ,covered with large lava boulders.Subsoil,hard clay.Timber,cedar and pinon pine.Undergrowth sage brush!No grass. Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs. November 3,1910:At this cor.I set off 14°58'S.,on the decl. arc;and at 11 h 44 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 38°08'N.,which is the proper lat.nearly.
	N.89°58'E.,on a random line betsecs.10 and 15.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.04	Intersect N.and S.line,at the cor.of secs.10,11,14, and 15. Thence I run S.89°58'W.,on a true line betsecs.10 and 15. Over rolling mesa;through scattering cedar and pinon pine timber and dense sage and buck brush.
12.30	Leave timber,bears NE and SW.
38.00	Enter heavy timber,bears NW and S.20°E.
40.02	Set an iron post,3 ft.long,1 in.in dia.,16 ins.in the ground, on bed rock, and surrounded by mound of earth and stone,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 10 in N half and S 15 in S half;from which A pinon pine 6 ins.dia.,bears N.39°W.,77 lks. dist..mkd. $\frac{1}{4}$ S 10 B T.. A cedar,11 ins.dia.,bears S.13°W.,187 lks. dist..mkd. $\frac{1}{4}$ S 15 B T..

Subdivision of T. 31 S., R. 6 W., -Continued.

Chains

- 42.00 Leave mesa, bears N.70°W. and S.70°E.
Desc. abruptly.
- 72.80 Bottom of gulch, 100 ft. deep, course S.
Asc.
- 78.75 Top of spur, 50 ft. above gulch, bears N. and S.
Desc.
- 80.04 The cor. of secs. 9, 10, 15, and 16,
E. 4200 chs. over nearly level mesa. Rich sandy loam soil
3 ft. deep almost free from rock, gravelly subsoil. Timber,
cedar and pinon pine. Undergrowth, sage and buck brush.
Good grass for grazing. W. 38.00 chs. along steep south slope
covered with volcanic rock and boulders. Soil, sandy clay
about 1 ft. deep, gravelly subsoil. Timber, cedar and pinon
pine. No undergrowth. No grass.
Mountainous land, heavily timbered or land covered
with dense undergrowth, 80.04 chs.
-
- N.0°2'W., bot. secs. 9 and 10.
Over mountainous land; through heavy cedar and pinon pine
timber.
- Asc. abruptly.
- 10.00 Top of steep ascent, bears N.60°W. and S.60°E. 150 ft. above
sec. cor.;
Enter dense sage and buck brush, bears N.60°W. and S.60°E.
Thence over rolling mesa.
- 20.00 Leave timber, bears NW and SE.
- 40.00 Set an iron post, 5 ft. long, 1 in. in dia., .26 ins. in the
ground, for $\frac{1}{2}$ sec. cor. wkd. on brass cap N 8 10 In E half
and $\frac{1}{2}$ S 9 in W half; and raise a mound of stone, 2 ft. base,
1 $\frac{1}{2}$ ft. high, W. of cor.
- 68.00 Leave mesa, bears N.65°W. and S.65°E.
Desc. abruptly.

Subdivision of T.31 S., R.6 W.-Continued.

Chains Wash in
 70.40 Bottom of hollow, 65 ft. below mesa, bourse N.65°W. When I left
 Asc.
 72.00 Enter scattering timber, bears NW and SE.
 76.10 Top of ascent, 70 ft. above hollow, bears N.65°E. and S.65°E
 Leave timber, bears N.65°W. and S.65°E.
 Thence over mesa.
 80.00 Set an iron post, 5 ft. long, 2 ins. in dia.; 24 ins. in the
 ground, for cor. of secs. 5, 4, 9, and 10, mkd. on brass cap
 T 31 S 8 4 in NW.
 R 6 W S 3 in NE.
 S 10 in SE.; and
 S 9 in SW. quadrants; from which
 A cedar, 10 ins. dia., bears S.35°27'E., 119 lks.
 dist..mkd.T 31 S R 6 W S 10 B T.
 A cedar, 5 ins. dia., bears S.56°47'W., 298 lks.
 dist..mkd.T 31 S R 6 W S 9 B T.
 No other trees within limits; raise a mound of stone,
 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 S.10 chs. on S. slope of rocky ridge, soil, sandy loam mixed
 with rock, gravelly subsoil. Timber, cedar and pinon pine.
 No brush. No grass. N.70 chs. over mesa slopes and drains
 northwest. Rich sandy loam soil covered with shale rock.
 subsoil white clay. Timber, cedar and pinon pine. Undergrowth
 sage and buck brush. A very little grass.
 Mountainous or heavily timbered land, or land covered
 with dense undergrowth, 80.00 chs.

November 3, 1910.

November 4, 1910: At 7 h 44 m a.m., l.m.t., I set off 38°09'
 E., on the lat.arc; 15°11'S., on the decl.arc; and determine
 a meridian with the solar, at the cor. of secs. 5, 4, 9, and 10.
 Thence I run

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
	N.89°58' E., on a random line bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.10	Intersect N. and S. line, 16 lks. N. of the cor. of secs. 2, 3, 10, and 11. Thence I run N.89°55' W., on a true line bet. secs. 3 and 10. Over mountainous land; through dense sage brush. Desc.
54.00	Foot of descent, bears N.70°W. and S.70°E. Enter rolling mesa.
40.05	Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 3 in N half. and S 10 in S half; dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
54.70	Old road, bears N.10°W. and S.10°E.
80.10	The cor. of secs. 3, 4, 9, and 10. E.34.00 chs. on gradual west slope of ridge. drains west. Soil, sandy clay 2 ft. deep, clay subsoil. almost free from rock. No timber. Undergrowth dense sage brush. Good grass. W.46.10 chs. over rolling mesa. sloping and draining westerly Soil, sandy loam about 3 ft. deep, gravelly subsoil. No timber. Undergrowth, sage brush. Good grass. Mountainous land, or land covered with dense undergrowth. 80.10 chs.
	November 4, 1910: At this cor. I set off 15°16'S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°09' N., which is the proper lat. nearly.
	H.0°2' W., on a true line bet. secs. 3 and 4. Over rolling mesa; through dense sage brush.

Subdivision of T. 31 S. R. 6 W. -Continued.

Chains	Desc.
11.15	Wash, 10 lks.wide, 3 ft.deep, course NW. Asc.
30.00	Wash, 30 lks.wide, 3 ft.deep, course NW.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 14 ins.in the ground, on hard pan, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 4 in W half and S 3 in E half; and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor.
41.25	Wash, 10 lks.wide, 2 ft.deep, course W.
72.50	Wash, 20 lks.wide, 1 ft.deep, in swale, 40 ft.below $\frac{1}{4}$ sec.cor. course SW. Asc.gradually.
90.00	Enter scattering timber, bears E.and W.
95.72	Intersect 6th Standard Parallel South, 16.87 chs. N.89°54' E., from the $\frac{1}{4}$ sec.cor.on S.bdy.sec.53, heretofore described. Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.5 and 4, mkd.on brass cap C C T 30 S R 6 W S 30 S 34 in N.half, R 6 W S 3 in SE.; and T 31 S S 4 in SW.quadrants; from which A cedar, 5 ins.dia., bears S.46°E., 22 lks. dist..mkd.T 31 S R 6 W S 3 B.T. A cedar, 6 ins.dia., bears S.15°W., 9 lks. dist..mkd.T 31 S R 6 W S 4 B.T. Entire mile over rolling mesa;sandy clay soil 2 ft.deep clay subsoil.Timber, cedar and pinon pine on N.5.72 chs. Dense sage brush on entire mile.A very little grass. Land covered with dense sage brush 95.72 chs.

November 4, 1910

Dunphy Stewart
Instrumentman G.L.O.

November 5, 1910: At 7 h. 44 m a.m., l.m.t., I set off 38°05'N. on the lat.arc; 14°53'S., on the decl.arc; and determine a meridian with the solar at the cor.of secs.28, 29, 32, and 33. Thence I run S.0°3'E., on a true line betsecs.32 and 33.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
	Over mountainous land; through scattering cedar and pinon pine timber and dense oak, buck, and sage brush.
	Desc.
6.70	Bottom of hollow, 75 ft. below cor., course S.60°W.
	Asc.
12.00	Top of spur, 150 ft. above hollow, bears E. and W.
	Desc.
20.00	Bottom of hollow, 30 ft. below ridge, course NW.
	Asc.
33.50	Top of ridge, 200 ft. above hollow, bears N.70°W. and S.70°E
	Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 32° in W half and S 33° in E half; from which
	A cedar, 4 ins. dia., bears N.44°E., 66 lks. dist.. mkd. $\frac{1}{2}$ S 33 B T.
	No other trees within limits; raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Leave timber, bears E. and W.
	From this cor. An old cabin belonging to Low Brothers, bears N.75°W., 25.00 chs. dist.
	North Spring bears N.72°W., about 26.00 chs. dist.
	North edge of corral, bears N.78°W., about 24.00 chs. dist.
44.25	Trail leading to spring, bears N.50°W. and S.60°E.
45.50	Bottom of hollow, 150 ft. below spur, course N.70°W.
	Asc.
51.00	Top of spur, 50 ft. above hollow, bears NW and SE.
	Desc.
61.50	Bottom of hollow, 70 ft. below spur, course N.30°W.
	Asc.
73.00	Top of ridge, 100 ft. above hollow, bears N.10°W. and S.10°E.
	Desc.
77.00	Conglomerate ledge, 15 ft. high, bears N.15°W. and S.15°E.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

82.38

Intersect S.bdy.of Tp., S.83 chs. N.89°46'E., of the cor.of secs.32 and 33, heretofore described.

Set an iron post, 5 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.32 and 33., mld. on brass cap

C C T 32 S E 6 W S 4 S 5 in S half.

T 31 S S 32 in NW.

R 6 W S 33 in NE.quadrants; and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high; N.of cor.

Note:I destroy all marks on the cor.of secs.32 and 33. which pertain to secs.32 and 33.

Land, mountainous, slopes gradual and covered with volcanic rocks; drainage westerly into Buckskin valley.

Soil, clay and black loam mixed with volcanic rock, from 8 ins.to 16 ins.deep, subsoil, clay and gravel. Timber, cedar and pinon pine. Undergrowth, oak, buck, and sage brush.

Good grass for grazing on north slopes.

Mountainous land, or land covered with dense undergrowth, 82.38 chs.

November 5, 1910: At 11 h 44 m a.m., l.m.t., I set off 14°58' E., on the decl.arc; and, observe the sun on the a meridian with the solar, at the cor.of secs.28, 29, 32, and 33. the resulting lat.is 38°05'N., which is proper nearly.

Thence I run

N.0°5'W., betsecs.28 and 29.

Over mountainous land; through scattering cedar and pinon pine timber and dense sage and oak brush.

Sec.

4.00 Top of ridge, 50 ft.above cor., bears N.80°W. and S.80°E.

Leave timber, bears E.and W.

Desc.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
18.50	Bottom of hollow, 100 ft. below ridge, course W.
	Asc.
25.00	Enter scattering cedar and pinon pine timber, bears E. and W.
30.00	Top of ridge, 150 ft. above hollow; bears N. 80°W. and SE.
	Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for cor. of sec. 24. mkd. on brass cap $\frac{1}{4}$ S 29 in NW half. and S 28 in E half; from which
	A pinon pine, 5 ins. dia., bears N. 78°E., 30 lks. dist.. mkd. $\frac{1}{4}$ S 28 B T.
	A cedar, 10 ins. dia., bears S. 54°W., 115 lks. dist.. mkd. $\frac{1}{4}$ S 29 B T.
56.00	Bottom of hollow, 100 ft. below ridge, course N. 70°W.
	Asc.
57.00	Enter heavy cedar and pinon pine timber, bears E. and W.
67.50	Top of ridge, 500 ft. above hollow, bears E. and W.
	Desc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 17 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for cor. of secs. 20, 21, 28, and 29, mkd. on brass cap T 31 S 3 20 in NW. R 6 W S 21 in NE. S 28 in SE.; and S 29 in SW. quadrants; from which
	A cedar, 5 ins. dia., bears N. 6 °E., 43 lks. dist.. mkd. T 31 S R 6 W S 21 B T.
	A cedar, 6 ins. dia., bears S. 74°E., 21 lks. dist.. mkd. T 31 S R 6 W S 28 B T.
	A cedar, 5 ins. dia., bears S. 53°W., 8 lks. dist.. mkd. T 31 S R 6 W S 29 B T.
	A cedar, 5 ins. dia., bears N. 42°W., 10 lks. dist.. mkd. T 31 S R 6 W S 20 B T.
	Land, mountainous long gradual slopes.

Subdivision of T.31 S.; R.6 W.-Continued.

Chains	<p>Soil, sandy loam about 8 ins. deep mixed with lava rock. Subsoil volcanic formation. Timber, cedar and pinon pine. Undergrowth, sage and oak. Good grass for grazing on north slopes. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.</p>
	<p>East, on a random line bet. secs. 21 and 28.</p>
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, at the cor. of secs. 21, 22, 27, and 28.
	Thence I run
	West, on a true line bet. secs. 21 and 28.
	Over mountainous land; through scattering cedar and pinon pine timber and dense oak and buck brush.
	Asc.
24.00	Top of ridge, 200 ft. above cor., bears NW and SE.
	Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 21 in N half. and S 28 in S half; from which
	A pinon pine, 18 ins. dia., bears N. 37° 15' W., 85 lks. dist.. mkd. $\frac{1}{4}$ S 21 B T.
	A pinon pine, 5 ins. dia., bears S. 33° 45' W., 70 lks. dist.. mkd. $\frac{1}{4}$ S 28 R T.
56.00	Bottom of hollow, 200 ft. below ridge, course S.
	Asc.
	Enter dense sage brush, bears N. and S.
64.00	Top of ridge, 100 ft. above hollow, bears N. and S.
	Desc.
64.25	Leave sage, and enter heavy cedar and pinon pine timber, bears N. and S.
80.00	The cor. of secs. 20, 21, 28, and 29.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

Land, rough and broken steep slopes drains westerly.
 Soil, clay loam about 1 ft. deep, subsoil gravel.
 Timber, cedar and pinon pine.
 Undergrowth, sage oak, and buck brush.
 Good grass for grazing.
 Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

November 3, 1910.

November 4, 1910: At 7 h 44 m a.m., l.m.t., I set off $38^{\circ}06' N.$, on the lat.arc; $15^{\circ}11' S.$, on the decl.arc; and determine a meridian with the solar, at the cor.of secs.20, 21, 28, and 29.

Thence I run

$N.0^{\circ}3'W.$, betsecs.20 and 21.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Desc.

26.80 Bottom of hollow, 75 ft. below cor., course NW.

Asc.

54.00 Top of ridge, 50 ft. above hollow, bears E. and W.

Desc.gradually.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4} S 20$ in W half and $S 21$ in E half; from which

A pinon pine, 8 ins.dia., bears $S.70^{\circ}E.$, 20 lks.
 dist..mkd. $\frac{1}{4} S 21$ B.T.

A pinon pine, 7 ins.dia., bears $S.70^{\circ}W.$, 18 lks.
 dist..mkd. $\frac{1}{4} S 20$ B.T.

58.50 Bottom of hollow, 100 ft. below ridge, course W.

Asc.

Subdivision of T.31 S., R.6 W.-Continued.

- Chains .
69.00 Top of ridge .100 ft. above hollow, bears E. and W.
Desc.
71.00 Leave heavy and enter scattering timber and dense sage oak and buck brush, bears NE and SW.
79.00 Bottom of hollow, 100 ft. below ridge, course W.
Asc.
80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on rock, and surrounded by mound of stone, for cor. of secs. 16, 17, 20, and 21, mkd. on brass cap
T 31 S S 17 in NW.
R 6 W S 16 in NE.
S 21 in SE.; and
S 20 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Land, mountainous broken and steep covered with volcanic rocks.
Soil, rich black loam mixed with rock, about 1 ft. deep, subsoil gravel and hard clay.
Timber, cedar and pinon pine.
Undergrowth, sage and oak and buck brush.
Some good grass in the hollows.
Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

East, on a random line bet. secs. 16 and 21.
40.00 Set temp. 1 sec. cor.
80.04 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 15, 16, 21 and 22.
Thence I run
S.89°58'E., on a true line bet. secs. 16 and 21.
Over mountainous land; through scattering cedar and pinon pine timber and dense sage brush.
Asc.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
12.50	Top of ridge, 10 ft. above cor.; bears N.35°W. and S.35°E. Desc.
15.00	Enter heavy cedar and pinon pine timber, bears N. and S. Leave dense sage and enter scattering sage brush, bears N. and S.
28.00	Bottom of hollow, 100 ft. below ridge, course S. Asc.
40002	Set an iron post, 5 ft. long, 1 in. in dia., 26 ins. in the ground, for 1 sec.cor.. riveted on brass cap & S 16 in N half and S 21 in S half; from which A cedar, 5 ins. dia., bears N.5 TW., 17 lbs. dist. nrd. & S 16 E T. A cedar, 7 ins. dia., bears S.77° E., 21 lbs. dist. nrd. & S 21 E T.
44.00	Top of spur, 50 ft. above hollow, bears N and S. Desc.
75.00	Leave heavy and enter scattering timber, bears NW and SE. Enter dense sage brush, bears N. and S.
80.04	The cor. of secs. 16, 17, 20, and 21. Land, mountainous rough and steep. Soil, black loam mixed with rock, about 14 ins. deep, subsoil, clay and gravel. Timber, cedar and pinon pine,. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.04 chs.
	November 4, 1910: At the noon hour the sky is overcast and solar observations are impossible.
	<hr/> N.0°3' W. bet. secs. 16 and 17. Over mountainous land; through dense undergrowth. Asc. over volcanic boulders.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
10.85	Top of ridge, 100 ft. above cor., bears E. and W. Enter heavy timber, bears E. and W.
	Desc.
21.80	Bottom of hollow, 100 ft. below ridge, course W. Asc.
24.60	Top of spur, 50 ft. above hollow, bears E. and W. Desc.
28.90	Bottom of hollow, 50 ft. below spur, course W. Asc.
37.50	Top of ridge, 80 ft. above hollow, bears E. and W. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for 1 sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 17 in W half; and S 16 in E half; from which A pinon pine, 4 ins. dia., bears S. 54° E., 12 lks. dist.. mkd. $\frac{1}{4}$ S 16 B.T.
	A pinon pine, 6 ins. dia., bears S. 85° W., 11 lks. dist.. mkd. $\frac{1}{4}$ S 17 B.T.
47.30	Bottom of hollow, 100 ft. below ridge, course W. Asc.
58.85	Top of ridge, 90 ft. above hollow, bears E. and W. Desc.
61.25	Bottom of hollow, 50 ft. below ridge, course W. Asc. over lava rock slide.
79.00	Leave rock slide on top of spur, 100 ft. above hollow, bears E and W. Desc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of sec's. 8, 9, 16, and 17, mkd.on brass cap T 31 S S 8 in NW. R 6 W S 9 in NE. S 16 in SE; and S 17 in SW quadrants; from which A pinon pine, 14 ins. dia., bears N. 55° E., 34 lks. dist.. mkdIT .31 S R 6 W S 9 B.T.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

A pinon pine, 10 ins.dia., bears S.30°E., 24 lks.
dist..mfd.T.31 S.R.6 W S 16 B T.

A pinon pine, 16 ins.dia., bears S.70°W., 42 lks.
dit.mfd.T 31 S R 6 W S 17 B T.

A pinon pine, 12 ins.dia., bears W.25°W., 58 lks
dist..mfd.T 31 S R 6 W S 8 B T.

Land, rough mountainous land on west slope of high ridge
rocky and steep, west slope.

Soil, loam mixed with volcanic rock about 8 ins.deep,
subsoil volcanic formation.

Timber, cedar and pinon pine.

Undergrowth, sage and oak brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered
with dense undergrowth, \$0.00, chs.

November 4, 1910.

November 5, 1910: At 7 h 44 m a.m., l.m.t., I set off 58°08'
E., on the lat.arc; 15°30'S., on the decl.arc; and deter-
mine a meridian with the solar, at the cor.of secs.8, 9, 16,
and 17.

Whence I run

N.89°58'E., on a random line bet.secs.9 and 16.

40.00 Set temp. $\frac{1}{2}$ sec.cor.

80.16 Intersect N. and S.line, 2 lks. S. of the cor.of secs.9, 10,
15, and 16.

Whence I run

S.89°57'W., on a true line bet.secs.9 and 16.

Over mountainous land; through heavy cedar and pinon pine
timber and scattering sage brush.

Desc.along south slope of mountain

13.00 Bottom of Gulch, 100 ft. below cor., course S.
Asc.abruptly.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
14.50	Ledge on top of spur, 65 ft. above gulch, ledge 50 ft. high, bears N. and S.
	Desc.
22.20	Wash, 50 lks. wide, 6 ft. deep, in bottom of Fremont Canon, 200 ft. below spur, course N.75°W.
	Creek, 5 lks. wide, 2 ins. deep, in bottom of wash.
	Asc.
29.30	Old road, bears N.75°W. and S.75°E.
32.00	Begin abrupt ascent over a series of ledges and loose lava rock. bears NW and SE.
40.08	Set an iron post, 3 ft. long, 1 in. in dia., 15 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 9 in N half and S 16 in S half; from which
	A pinon pine, 14 ins. dia., bears N.53°30'W., 57 lks dist.. mkd. $\frac{1}{2}$ S 9 B.T.
	A pinon pine, 10 ins. dia., bears S.59°30'E., 45 lks. dist.. mkd. $\frac{1}{2}$ S 16 B.T.
59.20	Top of ridge, 420 ft. above canon, bears N.75°W. and S.75°E; leave ledges and rock, bears N.75°W. and S.75°E.
	Desc.
75.90	Bottom of hollow, 110 ft. below ridge, course N.70°W.
	Asc.
80.16	The cor. of secs. 8, 9, 16, and 17.
	Land, E.29.30 chs. on south slope of steep rocky mountain. Soil sandy clay about 1 ft. deep, subsoil lava rock. Timber cedar and pinon pine. W.50.86 chs. over north slope of steep rocky and ledgy mountain. Soil, sandy loam mixed with rock, 2 ft. deep in canon bottom and about 1 ft. deep in western part. Timber, cedar and pinon pine. No undergrowth. No grass.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.16 chs.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
	N.0°3'W., bet. secs. 8 and 9.
	Over mountainous land; through heavy cedar and piñon pine timber.
	Desc.
3.90	Bottom of hollow, 100 ft. below cor., course W.
	Asc.
9.10	Top of ridge, 200 ft. above hollow, bears N.70°W. and S.70°E.
	Desc.
14.15	Top of conglomerate ledge, 100 ft. high, bears N.70°W. and S.70°E.
17.00	Bottom of Fremont Canon, 450 ft. below ridge, course N.60°W.
	Asc.
17.50	Old road in canon, bears N.60°W. and S.60°E.
20.00	Foot of ledge .150 ft. high, bears N.60°W. and S.60°E.
25.00	Top of ridge, 200 ft. above canon, bears E. and W.
	Desc.
30.00	Bottom of hollow, 50 ft. below ridge, course SW.
	Asc.
38.00	Top of ridge, 100 ft. above hollow, bears E. and W.
	Desc.
40.00	Set an ironpost, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 8 in W half and S 9 in E half; from which
	A cedar, 10 ins. dia., bears S.30°E., 18 lks.
	dist.. mkd. $\frac{1}{4}$ S 9 B T.
	A cedar, 10 ins. dia., bears N.32°W., 30 lks.
	dist.. mkd. $\frac{1}{4}$ S 8 B T.
41.80	Bottom of hollow, 200 ft. below ridge, course N.45°W.
	Asc.
52.20	Foot of conglomerate ledge, 50 ft. high, bears NE and SW.
60.00	Top of ridge, 200 ft. above hollow, bears N.70°W. and S.70°E
	Desc.
67/00	Leave heavy and enter scattering timber, bears E. and W.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	Enter dense sage brush, bears E. and W.
76.20	Bottom of hollow, 50 ft. below ridge, course N.40°W.
	Asc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 4, 5, 8, and 9, mkd. on brass cap T 31 S S 5 in NW. R 6 W S 4 in NE. S 9 in SE.; and S 8 in SW. quadrants; from which A cedar, 5 ins. dia., bears N.85°E., 86 lks. dist..mkd.T 31 S R 6 W S 4 B T. A pinon pine, 5 ins. dia., bears S.18°E., 44 lks. dist..mkd.T 31 S R 6 W S 9 B T. A cedar, 6 ins. dia., bears S.64°W., 60 lks. dist..mkd.T 31 S R 6 W S 8 B T. A cedar, 5 ins. dia., bears N.67°W., 30 lks. dist..mkd.T 31 S R 6 W S 5 B T.
	Land, very rough and steep mountains covered with rock and some ledges. Slopes and drains westerly.
	Soil, gravelly and mixed with rock; 3rd rate about 1 ft. deep. Subsoil conglomerate formation.
	Timber, cedar and pinon pine on the entire mile.
	Undergrowth, sage brush.
	A very little grass.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	November 5, 1910: At this cor. I set off 15°35'S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°09'N., which is the proper lat. nearly.
	N.89°57' E., on a random line bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec. cor.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

- 79.98 Intersect N. and S. line, 2 lks. S. of the cor. of secs. 3, 4, 9, and 10.
 Thence I run
 S. 89° 56' W., on a true line bet. secs. 4 and 9.
 Over rolling mesa; through dense sage brush.
 7.50 Begin descent, bears N. 60° W. and S. 60° E.
 19.50 Wash, 10 lks. wide, 2 ft. deep, course N. 60° W. in bottom of swale, 80 ft. below mesa, course N. 60° W.
 Asc.
 39.99 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 4 in N half and S 9 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 47.00 Top of ridge, 90 ft. above hollow, bears N. 70° W. and S. 70° E
 Enter scattering cedar and pinon pine timber, bears N. 70° W. and S. 70° E.
 Desc.
 67.25 Bottom of hollow, 40 ft. below ridge, course NW.
 Asc.
 78.30 Top of spur, 30 ft. above hollow, bears NW and SE.
 Desc.
 79.98 The cor. of secs. 4, 5, 8, and 9.
 Land, E. 7.50 chs. on nearly level mesa sloping gently westward. Soil, clay loam about 3 ft. deep, gravelly subsoil. No timber. Undergrowth, sage brush. W. 72.48 chs. Over rolling ridges and hollows with gradual slopes, drains westerly. Soil, sandy loam about 1 ft. deep, and covered with cobble rock. gravelly subsoil. Timber, scattering cedar and pinon pine. Undergrowth, oak, and sage brush.
 Good grass for grazing.
 Mountainous land, or land covered with dense undergrowth 79.98 chs.
 N. 0° 3' W., on a true line bet. secs. 4 and 5.

Subdivision of T.32 S., R.6 W.-Continued.

Chains

- Over mountainous land, through scattering cedar and pinon pine timber and dense sage brush.
- Asc.
- 2.00 Top of spur, 15 ft. above cor., bears NW and SE.
- Desc.
- 9.25 Bottom of hollow, 20 ft. below ridge, course W.
- Asc.
- 13.60 Top of ridge, 50 ft. above hollow, bears N.80°W. and S.80°E.
- Desc.
- Wash in
- 28.75 Bottom of hollow, 100 ft. below ridge, course W.
- Asc.
- 36.80 Top of ascent, 100 ft. above hollow, bears E. and W.
- Thence over rolling mesa.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor; mkd. on brass cap $\frac{1}{4}$ S 5 in W half and S 4 in E half; from which
- A cedar, 8 ins. dia., bears S.15°E., 67 lks.
- dist.. mkd. $\frac{1}{4}$ S 4 B T.
- A pinon pine, 6 ins. dia., bears S.79°W., 32 lks.
- dist.. mkd. $\frac{1}{4}$ S 5 B T.
- 74.60 Bottom of wash, 20 ft. deep, course W.
- 95.86 Intersect 6th Standard Parallel $17^{\circ}01' \text{ chs. } S.89^{\circ}\text{E.}$, of the standard $\frac{1}{4}$ sec. cor. on S. side. of sec. 32, heretofore described.
- Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for closing cor. of secs. 4 and 5 mkd. on brass cap
- C C T 30 S R 6 W S 32 S 33 in N half.
- R 6 W S 4 in SE.; and
- T 31 S S 5 in SW. quadrants; from which
- A cedar, 5 ins. dia. mbears S.51°E., 141 lks.
- dist.. mkd. T 31 S R 6 W S 4 B T.
- A cedar, 5 ins. dia., bears S.53°30'W., 150 lks.
- dist.. mkd. T 31 S R 6 W S 5 B T.
- Land, S.36.80 chs. over rolling mountainous country slopes

Subdivision of T.31 S., R.6 W.--continued.

Chains

and drains westerly. Soil, sandy loam mixed with rock, about 2 ft. deep, subsoil gravel. Timber, cedar and pinon pine, Undergrowth, sage brush. Very little grass.
 N.59.06 chs. over rolling mesa; sloping gently westward. Soil sandy loam about 2 ft. deep, subsoil gravel. Timber, scattering cedar and pinon pine. Undergrowth, dense sage brush, light growth of grass.
 Mountainous land, or land covered with dense undergrowth
 95.86 chs.

November 5, 1910.

Instrumentman G.L.O.

November 4, 1910: At 3 h 44 m p.m., l.m.t., I set off $38^{\circ}05'$ N., on the lat.arc; $15^{\circ}18' S.$, on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 29, 30, 31, and 32.

Thence I run.

$S.0^{\circ}3' E.$, on a true line bet. secs. 31 and 32.

Over level land; through dense sage brush.

- 3.00 Wash, 8 lks. wide, 4 ft. deep, course W.
 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 31 in W half and S 32 in E half; and raise a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high, W. of cor.
 81.38 Intersect S.bdy. of Tp., 392 lks. S. $88^{\circ}25' E$ of the cor. of secs. 5, 6, 31, and 32, heretofore described.
 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 31 and 32, mkd. on brass cap

C C T 32 S R 6 W S 5 S 6 in S half;

T 31 S S 31 in NW.; and

R 6 W S 32 in NE. quadrants; from which

Subdivision of T.31 S. 4.6 W., -Continued.

Chains

A cedar, 12 ins. dia., bears N.10°E., 70 lms.

dist., mkd. T 31 S R 6 W 3 32 B T.

No other trees within limits; raise a mound of stone, 2 ft. baulkly ft. high, E. of cor.

Note : I destroy all marks on the cor. of secs. 5, 6, 31, and 32, which pertain to secs. 31 and 32.
Land, nearly level valley.

Soil, sandy loam 2nd rate, about 3 ft. deep.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Land covered with dense undergrowth, 81.38 chs.

November 4, 1910.

November 5, 1910: At 7 h 44 m a.m., l.m.t., I set off 38°05' N., on the lat.arc; 15°30' S., on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 29, 30, 31, and 32.

Thence I run

N.0°3'7., bet. secs. 29 and 30.

Over level valley land; through dense sage brush.

17.50 Wash, 10 lms. wide, 2 ft. deep, course N.60°W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., mkd. on brass cap $\frac{1}{2}$ S 20 in W half and S 29 in E half; and raise a mound of stone, 2 ft. baulkly ft. high, W. of cor.

56.00 Bottom of ravine 20 lms. wide, 15 ft. deep, course N.40°W.

76.50 Main wash in Buckskin valley, 60 lms. wide, 12 ft. deep, course N.E.

Ans.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the

Subdivision of T.31 S., R.6 W.-Continued.

Chains

ground, for cor. of secs. 19, 20, 29, and 30, mkd. on brass cap
T 31 S S 19 in NW.

R 6 W S 20 in NE.

S 29 in SE.; and

S 30 in SW. quadrants; and raise a mound of stone
2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, level.

Soil, sandy loam; about 3 ft. deep mixed with some rock,
subsoil, gravel and clay.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Land, covered with dense undergrowth, 80.00 chs.

East, on a random line bet. secs. 20 and 29.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect N. and S. line, 2 lks. N. of the cor. of secs. 20,
21, 28, and 29.

Thence I run

N. $89^{\circ}59'W.$, on a true line bet. secs. 20 and 29.

Over mountainous land; through heavy timber, and dense sage
brush.

Desc.

39.98 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor.: mkd. on brass cap $\frac{1}{4}$ S 20 in N half
and S 29 in S half; from which

A cedar, 8 ins. dia., bears N. $72^{\circ}W.$, 230 lks.

dist.. mkd. $\frac{1}{4}$ S 20 B T.

A cedar, 6 ins. dia., bears S. $51^{\circ}E.$, 85 lks.

dist.. mkd. $\frac{1}{4}$ S 29 B T.

Leave timber, bears N. and S.

45.00 Bottom of hollow, 75 ft. below $\frac{1}{4}$ sec. cor., course NW.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
	Asc.
50.00	Top of ridge, 50 ft. above hollow, bears N.10°E. and S.10°W
	Desc.
60.90	Foot of descent, 100 ft. below ridge, bears N. and S.
61.00	Old road, bears N. and S.
76.40	Main wash draining Buckskin valley, 60 lks. wide, 12 ft. deep, course N.
	Asc.
79.96	The cor. of secs. 19, 20, 29, and 30. Land, E. 60.90 chs. over rolling mountainous land; sloping northwest. Soil, black loam mixed with rock; 2nd rate. subsoil, gravelly. Timber, cedar and pinon pine. Undergrowth th., sage brush. A little grass. W. 19.06 chs. over nearly level valley sloping northwesterly. Soil, sandy loam about 12 ft. deep, mixed with some rock. No timber. Undergrowth, sage brush. Good grass. Mountainous or heavily timbered land, or land covered with dense undergrowth. 79.96 chs. November 5, 1910: At the noon hour the sky is overcast and solar observations are impossible.
	S. 89°47'W., on a random line bet. secs. 19 and 30.
40.00	Set temp. ¹ Sec. cor.
84.52	Intersect W. bdy. of Tp., 5 lks. S. of the cor. of secs. 19, 24, 25, and 30, heretofore described.
	Thence I run N. 89°49'E., on a true line bet. secs. 19 and 30.
	Over mountainous land; through heavy cedar and pinon pine timber.
	Asc.
2.60	Top of ridge, 20 ft. above cor., bears N. and S.
	Desc.

Subdivision of T.31 S., R.6 W.-Continued.

- Chains
- 44.52 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 19 in N half and S 30 in S half; from which
 A pinon pine, 6 ins. dia., bears N.21°W., 105 lks.
 dist.. mkd. $\frac{1}{2}$ S 19 B T.
 A cedar, 6 ins. dia., bears S.58°E., 94 lks.
 dist.. mkd. $\frac{1}{2}$ S 30 B T.
- 54.60 Leave heavy cedar and pinon pine timber and enter scat-
tering timber and dense sage brush, bears N. and S.
- 69 50 Bottom of hollow, 500 ft. below ridge, course S.
 Continue descent.
- 81.40 Foot of descent, bears NE and SW.
 Enter Buckskin valley.
- 84.52 The cor. of secs. 19, 20, 29, and 30.
 Land, mountainous long gradual southeast slope of ridge.
 Soil, sandy loam mixed with red clay and some rock about 2 ft. deep, subsoil clay. Timber, cedar and pinon pine.
 Undergrowth sage brush with some oak.
 A little good grass in patches.
 Mountainous or heavily timbered land, or land covered with dense undergrowth, 84.52 chs.
- N.0°3'W., bet. secs. 19 and 20.
 Over nearly level valley; through dense sage brush.
- 4.00 Wash, 15 lks. wide, 7 ft. deep, course E.
- 10.00 Leave valley, bears N.20°E. and S.20°W.
 Asc. abruptly.
- 18.00 Enter heavy cedar and pinon pine timber, bears NE and SW
- 32.70 Top of spur, 170 ft. above valley, bears N.82°E. and S.82°W
 Desc.
- 39.60 Bottom of hollow, 75 ft. below spur, course E.
 Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the

Subdivision of T.31 S. N.6 W.-Continued.

Chains	ground, on rock, and surrounded by mound of earth and stone for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 19 in W half; and S 20 in E half; from which
	A cedar, 7 ins.dia., bears S.62°E., 22 l ks. dist..mkd. $\frac{1}{2}$ S 20 B T.
	A cedar, 14 ins.dia., bears N.40°W., 63 l ks. dist..mkd. $\frac{1}{2}$ S 19 B T.
44.00	Top of spur, 40 ft.above hollow, bears E.and W. Desc.54.00
54.90	Bottom of hollow, 40 ft.below spur, course E. Asc.
80.00	Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.17,18,19, and 20,mkd. on brass cap T 31 S S 18 in NW. R 6 W S 17 in NE. S 20 in SE.;and S 19 in SW.quadrants;from which A cedar, 11 in.in dia., bears N.76°25'E., 43 l ks. dist..mkd.T 31 S R 6 W S 17 B T. A pinon pine, 8 ins.dia., bears S.54°E., 66 l ks. dist..mkd.T 31 S R 6 W S 20 B T. A pinon pine, 7 ins.dia., bears S.42°50'W., 15 l ks. dist..mkd.T 31 S R 6 W S 19 B T. A pinon pine, 12 ins.dia., bears N.69°40'W., 113 lks.dist..mkd.T 31 S R 6 W S 18 B T. Land, mountainous rough and steep, slopes and drain east. Soil, sandy clay loam covered with boulders and rock and mixed with cobble rock and gravel .Subsoil clay. Timber, cedar & pinon pine. Undergrowth, sage brush. No grass . Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

Subdivision of T.31 S., R.6 W.-continued.

Chains

Grinby Stewart

Instrumentman G.L.O

November 7, 1910: At 7 h 44 m a.m., l.m.t., I set off 38°07' N., on the lat.arc; 16°06' S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 17, 18, 19, 20.

Thence I run

S.89°59'E., on a random line bet.secs. 17 and 20.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.04 Intersect N.and S.line, 10 lks.S.of the cor.of secs. 16, 17, 20, and 21.

Thence I run

S.89°57' W., on a true line bet.secs. 17 and 20.

Over mountainous land; through dense sage brush.

Desc.gradually.

8.00 Bottom of hollow, 10 ft.below cor.; course N.80°W.

Asc.

10.75 Top of spur, 25 ft.above hollow, bears N.and S.

Desc.

15.10 Old road, bears N.and S.

Foot of descent, 50 ft.below spur, bears N.and S.

Enter bottom of hollow.

16.75 Wash, from Buckskin valley, 40 lks.wide, 4 ft.deep, course N.15°E.

24.00 Leave hollow, bears N.and S.

Asc.

24.50 Enter heavy cedar and pinon pine timber, bears N.and S.

34.00 Top of spur, 300 ft.above hollow, bears NW and SE.

Desc.

40.02 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 17 in N half and S 20 in S half;from which.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	A pinon pine, 6 ins.dia., bears N.5°W., 2 lmsk dist..mkd. $\frac{1}{4}$ S 17 B T.
	A cedar, 10 ins.dia., bears S.10°W., 63 lks. dist..mkd. $\frac{1}{4}$ S 20 B T.
40.30	Bottom of hollow, 50 ft. below spurcourse NE Asc.
80.04	The cor.of secs.17,18,19, and 20. Land, mountainous , rocky and steep . Soil, sandy and clay loam about 1 ft. deep, mixed with volcanic rock . Subsoil, gravel and rock. Timber, cedar and pinon pine. Undergrowth,sage brush. Good grass for grazing in hollows. Mountainous or heavily timbered land,or land covered with dense undergrowth,80.04 chs.
40.00	S.89°49'W.,on a random line betsecs.18 and 19. Set temp. $\frac{1}{4}$ sec.cor.
84.48	Intersect W.bdy.of Tp., 5 lks.S.of the cor.of secs.18 and 19, heretofore described. Thence I run N.89°51'E., on a true line betsecs.18 and 19. Over mountainous land;through heavy cedar and pinon pine timber and scattering sage brush. Asc.over ledges.
12.40	Top of spur, 50 ft.above cor.hears N.70°E.and S.70°W. Desc.
28.80	Bottom of hollow, 50 ft.below spur, course N.75°W. Asc.
44.48	Set an iron post, 3 ft.long, 1 in.in dia., 26 in.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 18 in N half and S 19 in S half;from which A pinon pine, 6 ins.dia., bears N.25°30'W., 156 lks.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
	dist..mkd. $\frac{1}{4}$ S 18 B T.
	A pinon pine, 8 ins. dia., bears S.39°E., 40 lks.
	dist..mkd. $\frac{1}{4}$ S 19 B T.
49.00	Top of spur, 35 ft. above hollow, bears N. and S.
	Desc.
69.20	Bottom of hollow, 50 ft. below spur course N.
	Asc.
80.25	Top of main ridge, 50 ft. above hollow, bears N.18°E. and S 18°W.
	Desc.
84.48	The cor. of secs. 17, 18, 19, and 20,
	Land broken and rough covered with numerous small ledges and boulders.
	Soil, sandy clay loam, 2nd rate medium texture about 2 ft deep. Subsoil, clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage and oak brush.
	Good grass for grazing
	Mountainous or heavily timbered land, 84.48 chs.
	November 7, 1910: At this cor. I set off 16°11'S., on the decl. arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian the resulting lat. is 38°07'N., which is the proper lat. nearly.
	N.0°3'W., bet. secs. 17 and 18.
	Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush
	Asc.
2.00	Top of ridge, 20 ft. above cor., bears E. and W.
	Desc.
14.75	Head of hollow, 100 ft. below ridge, course E.
	Asc.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
25.00	Top of ridge, 100 ft. above hollow, bears NE and SW.
25.25	Top of conglomerate ledge, 40 ft. high, bears NE and SW.
	Desc.
31.00	Bottom of hollow, 100 ft. below ridge, course N.65°E.
	ASC.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 18 in W half and S 17 in E half; from which A cedar, 4 ins. dia., bears N.36°E., 32 lks. dist. mkd. $\frac{1}{4}$ S 17 B T. A cedar, 6 ins. dia., bears N.75°W., 42 lks. dist. mkd. $\frac{1}{4}$ S 18 B T.
43.00	Top of ridge, 75 ft. above hollow, bears NE and SW. Des. along west slope of ridge.,
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 7, 8, 17, and 18, mkd. on brass cap T 31 S S 7 in NW. R 6 W S 8 in NE. S 17 in SE.; and S 18 in SW quadrants; from which A pinon pine, 5 ins. dia., bears N.70°E., 44 lks. dist. mkd. T 31 S R 6 W S 8 B T. A pinon pine, 12 ins. dia., bears S.54°E., 40 lks. dist. mkd. T 31 S R 6 W S 17 B T. A pinon pine, 10 ins. dia., bears S.55°W., 46 lks. dist. mkd. T 31 S R 6 W S 18 B T. A pinon pine, 12 ins. dia., bears N.61°W., 16 lks. dist. mkd. T 31 S R 6 W S 7 B T.
	Land, mountainous long smooth slopes, drainage north and east.
	Soil, sandy loam about 2 ft. deep, subsoil gravel.
	Timber, cedar and pinon pine.
	Undergrowth, scattering sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.

Subdivision of T.31.S., R.6 W.-Continued.

Chains

November 7, 1910.

November 8, 1910: At 7 h 44 m a.m., l.m.t., I set off $38^{\circ}07'$ N., on the lat.arc; $16^{\circ}24'$ S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 7, 8, 17, and 18.

Thence I run

N. $89^{\circ}57'$ E., on a random line bet.secs. 8 and 17.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.08 Intersect N.and S.line, 16 lks.N.of the cor.of secs. 8, 9, 16, and 17.

Thence I run

N. $89^{\circ}56'$ W., on a true line bet.secs. 8 and 17.

Over rough mountainous land; through heavy cedar and pinon pine timber and dense oak and sage brush.

Desc.

10.25 Wash, 25 lks.wide, 3 ft.deep, in bottom of hollow, 100 ft. below cor., course N.

Asc.

10.50 Old road, bears N.and S.

12.00 Asc.abruptly, bears N.and S.

19.00 Top of spur, 30 ft.above hollow, bears NE and SW.

Desc.

23.00 Bottom of hollow, 30 ft.below spur, course NE.

Asc.

40.04 Set an iron post, 3 ft.long, 1 in.in dia., 16 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 8 in N half and S 17 in S half; from which

A pinon pine, 10 ins.dia., bears N. $29^{\circ}30'$ E., 22 lks.

dist..mkd. $\frac{1}{4}$ S 8 B T.

A cedar, 11 in.in dia., bears S. $13^{\circ}30'$ E., 78 lks.

dist..mkd. $\frac{1}{4}$ S 17 B T.

Subdivision of T.31.S., R.6 W.-continued.

Chains	
48.80	Top of spur, 80 ft. above hollow, bears N.55°E. and S.55°W
Desc.	
55.50	Bottom of hollow, 20 ft. below ridge, course N.60°E.
Asc.	
77.50	Top of ridge, 180 ft. above hollow, bears N.20°E. and S.20°W.
Desc.	
80.08	The cor. of secs. 7, 8, 17, and 18. 50 ft. below ridge. Land, very rough and broken covered with volcanic rock. Soil, sandy and clay loam about 1 ft. deep, medium texture Clay subsoil. Timber, cedar and pinon pine. Undergrowth, oak and sage brush. No grass. Mountainous or heavily timbered land, 8 0.08 chs.
	S.89°51'W., on a random line bet. secs. 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
84.45	Intersect W. bdy. of Tp., 5 lks. E. of the cor. of secs. 7 and 18, heretofore described. Thence I run
	N.89°53'E., on a true line bet. secs. 7 and 18. Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
	Desc.
2.80	Bottom of hollow, 50 ft. below cor., course N.
Asc.	
15.60	Top of spur, 200 ft. above hollow, bears N.80°W. and S.80°E.
Desc.	
31.40	Bottom of hollow, 100 ft. below spur, course NW.
Asc.	

Subdivision of T.31 S., R.6 W.-Continued.

- | Chains | |
|--------|--|
| 44.45 | Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on rock, and surrounded by mound of stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 7 in N half and S 18 in S half; from which
A pinon pine, 5 ins. dia., bears N.6°E., 18 lks.
dist.. mkd. $\frac{1}{4}$ S 7 B T.
A pinon pine, 12 ins. dia., bears S.E.W., 28 lks.
dist.. mkd. $\frac{1}{4}$ S 18 B T. |
| 56.50 | Top of ridge, 300 ft. above hollow, bears NE and SW.
Desc. |
| 74.10 | Bottom of hollow, 250 ft. below ridge, course NE.
Asc. |
| 84.45 | The cor.of secs.7,8,17, and 18.
Land, rough and mountainous slopes northward.
Soil, sandy clay loam medium texture about 1 ft. deep, on clay subsoil .
Timber, cedar and pinon pine.
Undergrowth, sage brush.
Good grass in hollows.
Mountainous or heavily timbered land, 84.45 chs.
November 8, 1910: At this cor. I set off 16°29'S., on the decl.arc; and at 11 h 44 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°08'N., which is the proper lat.nearly.

N.0°3'W., bet.secs.7 and 8.
Over mountainous land; through heavy cedar and pinon pine timber.
Desc.along west slope of ridge.. |
| 16.85 | Bottom of hollow, 260 ft. below cor., course N.30°E.
Asc. |
| 38.25 | Top of spur, 300 ft. above hollow, bears N.60°E.and S.60°W. |

Subdivision of T.31 S., R.6 W.-Continued.

Chains

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 7 in W half and S 8 in E half; from which

A pinon pine, 8 ins. dia., bears N.84°E., 15 lks.
dist.. mkd. $\frac{1}{4}$ S 8 B T.

A pinon pine, 6 ins. dia., bears N.72°W., 4 lks.
dist.. mkd. $\frac{1}{4}$ S 7 B T.

45.000 Bottom of hollow, 100 ft. below spur, course E.

Asc.

51.20 Ledge, 30 ft. high, bears N.75°E. and S.75°W.

60.00 Top of ridge, 300 ft. above hollow, bears NE and SW

Desc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, mkd. on brass cap

T 31 S 8 6 in NW.

R 6 W S 5 in NE.

S 8 in SE.; and

S 7 in SW. quadrants; from which

A pinon pine, 5 ins. dia., bears N.25°E., 32 lks.
dist.. mkd. T 31 S R 6 W S 5 B T.

A pinon pine, 6 ins. dia., bears S.15°E., 20 lks.
dist.. mkd. $\frac{1}{4}$ T 31 S R 6 W S 8 B T.

A pinon pine, 8 ins. dia., bears S.89°W., 27 lks.
dist.. mkd. T 31 S R 6 W S 7 B T.

A pinon pine, 5 ins. dia., bears N.14°W., 50 lks.
dist.. mkd. T 31 S R 6 W S 6 B T.

Land rough and mountainous slopes and drains northwesterly
Soil, sandy clay loam mixed with lava rock about 1 ft. deep
clay subsoil.

Timber, cedar and pinon pine.

Light growth of grass.

Mountainous or heavily timbered land, 80.00 chs.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

- November 9, 1910: At 7 h 44 m a.m.; l.m.t., I set off $38^{\circ}09'$ N., on the lat.arc; $16^{\circ}41' S.$, on the decl.arc; and determine a meridian with the solar, at the cor.of secs.5,6,7, and 8.
 Thence I run
 $S.89^{\circ}56'E.$, on a random line bet.secs.5 and 8.
- 40.00 Set temp. $\frac{1}{2}$ sec.cor.
- 79.92 Intersect N.and S.line, 7 lks.N.of the cor.of secs.4,5, 8, and 9.
 Thence I run
 $N.89^{\circ}53'W.$, on a true line bet.secs.5 and 8.
 Over mountainous land; through scattering cedar and pinon pine timber and dense sage brush.
 Desc.
 5.20 Bottom of hollow, 25 ft.below cor., course NW.
 Asc.
 27.20 Top of ridge, 40 ft.above hollow, bears NW and SE.
 Enter heavy cedar and pinon pine, bears NW and SE.
 Desc.
 39.96 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{2}$ sec.cor.. mkd.on brass cap $\frac{1}{2} S 5$ in N half and $S 8$ in S half; from which
 A pinon pine, 10 ins.dia., bears $N.62^{\circ}E.$, 62 lks.
 dist.. mkd.: $\frac{1}{2} S 5$ B T.
 A cedar, 5 ins.dia., bears $S.22^{\circ}W.$, 70 lks.
 dist.. mkd.: $\frac{1}{2} S 8$ B T.
 48.70 Foot of ledge, 50 ft.high, bears $N.40^{\circ}W.$ and $S.40^{\circ}E.$
 54.45 Foot of descent, 300 ft.below ridge, bears $N.40^{\circ}W.$ and $S.40^{\circ}E.$
 Enter bottom of Fremont Canon.
 54.45 Old road, bears NW and S.
 57.65 Wash, 60 lks.wide, 6 ft.deep, course NW.
 comes from south.
 66.50 Leave canon bottom, bears $N.70^{\circ}W.$ and $S.70^{\circ}E.$

Subdivision of T.31 S., R.6 W.-Continued.

- Chains
Asc.
79.92 The cor.of secs.5,6,7, and 8.,
Land,mountainous slopes are steep and rocky canon bottom
is smooth and free from rock.
Soil in Fremont canon is sandy loam about 6 feet deep, rich
and moist.balance of mile soil is clay and sandy loam
about 1 ft.deep,mixed with volcanic rock.subsoil,gravel
and clay.
Timber,cedar and pinon pine.
Undergrowth,sage brush .
No grass .
Mountainous land,or land covered with dense undergrowth
79.92 chs.
November 9, 1910:At this cor.I set off $16^{\circ}46' S.$, on the
decl.arc;and at 11 h 44 m a.m.,l.m.t.,I observe the sun
on the meridian,the resulting lat.is $38^{\circ}09' N.$,which is
the proper lat.nearly.

S. $89^{\circ}53' W.$,on a random line betsecs.6 and 7.
40.00 Set temp. $\frac{1}{4}$ Sec.cot.
84.40 Intersect W.bdy.of Tp.,2 lks.N.of the point for cor.of
secs.6 and 7 which is 36 lks. N.of the witness cor.to
cor.of secs.6 and 7,heretofore described.
Hence I run
From the point for cor.of secs.6 and 7.
N. $89^{\circ}52' E.$,on a true line betsecs.6 and 7.
Over rolling mountainous land;through dense sage brush.
In wash.
.40 Leave wash,bears N. $70^{\circ} E.$ and S. $70^{\circ} W.$ course S. $70^{\circ} W.$
Asc.
25.60 Same wash,40 lks.wide, $4 \frac{1}{2}$ ft.deep,in bottom of Fremont
Canon,course N. $85^{\circ} W.$
Asc.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	
29.00	Same wash, 50 lks. wide, 6 ft. deep, course S.70°W.
36.00	Same wash, 50 lks. wide, 5 ft. deep, course N.60°W.
	Asc.
42.00	Old road, bears N.20°E. and S.20°W.
44.40	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 6 in N half and S 7 in S half; from which
	A cedar, 8 ins. dia., bears N.47°W., 49 lks. dist.. mkd. $\frac{1}{4}$ S 6 B T.
	A cedar, 8 ins. dia., bears S.67°W., 119 lks. dist.. mkd. $\frac{1}{4}$ S 7 B T.
49.20	Top of spur, 100 ft. above canon, bears N.20°E. and S.20°W.
	Desc.
54.60	Wash, 15 lks. wide, 6 ft. deep, in bottom of Fremont canon, 30 ft. below spur, course S.20°W.
	Asc.
58.80	Top of spur, 50 ft. above canon, bears N. and S.. Desc.
63.00	Wash, 40 lks. wide, 5 ft. deep, in Fremont canon, 30 ft. below spur, course N.
	Thence in bottom of canon.
69.00	Same wash, 50 lks. wide, 4 ft. deep, course S.10°W.
	Leave canon bottom, bears N.10°E. and S.10°W.
	Asc.
72.10	Top of spur, 50 ft. above canon, bears N.10°E. and S.10°W.
	Desc.
84.40	The cor. of secs. 5, 6, 7, and 8.
	Land, rolling mountainous land slopes westward and drains westerly.
	Soil in Fremont Canon sandy loam about 6 ft. deep; rich and productive. subsoil, clay and gravel. Balance of mile is clay and sandy loam about 2 ft. deep, mixed with rock. No timber except a few scattering cedars.
	Undergrowth, sage brush.

Subdivision of T.31 S., R.6 W.-Continued.

Chains	A very little grass.
	Mountainous land, or land covered with dense undergrowth, 84.40 chs.
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	N.0°3'W., on a true line bet. secs. 5 and 6.
	Over mountainous land; through scattering timber and dense sage brush.
	Desc.
3.90	Wash, 25 lks. wide, 3 ft. deep, in bottom Fremont Canon, 30 ft. below cor., course W.
	Asc.
5.00	Old road, bears E. and W.
26.80	Top of ridge, 260 ft. above canon, bears N.75°W. and S.75°E
	Desc.
38.20	Wash, 20 lks. wide, 3 ft. deep in broad swale, 150 ft. below ridge, course N.70°W.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 6 in W half and S 5 in E half; from which
	A pinon pine, 8 ins. dia., bears N.3°E., 21 lks. dist.. mkd. $\frac{1}{4}$ S 5 B T.
	A cedar, 7 ins. dia., bears S.77°W., 359 lks. dist.. mkd. $\frac{1}{4}$ S 6 B T.
45.60	Top of steep ascent, 150 ft. above swale, bears E. and W. Thence over rolling mesa.
87.60	Wash, 16 lks. wide, 3 ft. deep, course NW.
96.72	Intersect 6th standard Parallel south 17.49 chs. S.89°50' E. of the standard $\frac{1}{4}$ sec. cor. on S. bdy. sec. 31, heretofore described.
	Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on bed rock, and surrounded by mound of earth and

Subdivision of T.31 S., R.6 W.-Continued.

Chains

stone, for closing cor. of secs. 5 and 6, mka. on brass cap
C C T 30 S R 6 W S 31 S 32 in N half.

R 6 W S 5 in SE.; and

T 31 S S 6 in SW. quadrants; from which

A cedar, 4 ins. dia., bears S.48°E., 31 lks.

dist..mkd.T 31 S R 6 W S 5 B T.

A cedar, 5 ins. dia., bears S.29°W., 27 lks.

dist..mkd.T 31 S R 6 W S 6 B T.

Land, S.45.60 chs. over rolling ridges and hollows with gradual smooth slopes draining westerly. Soil, sandy loam about 2 ft. deep, mixed with some gravel. Subsoil gravel.

N.51.12 chs. Over rolling mesa gently sloping west.

Soil, sandy loam, rich and productive but mixed with some rock. it is about 3 ft. deep, on subsoil of gravel.

Timber, scattering cedar and pinon pine timber.

Undergrowth, sage brush.

A very little grass.

Mountainous land, or land covered with dense undergrowth.

96.72 chs.

November 9, 1910.

John R Stewart

Instrumentman G.L.O.

Subdivision of T.31 S., R.6 W.-Continued.

Chains

GENERAL DESCRIPTION.

With the exception of Buckskin valley in the southwest part of the township and a mesa in the extreme north end this township is very rough and steep; the formation being sedimentary and composed of rather soft sandstones numerous gulches and canons have been formed by weathering agencies in the past. The general trend of the canons and hollows is northwesterly into Fremont canon which is the most important canon in the township and runs through the entire township from southeast to northwest corner. The entire township has been covered by a volcanic overflow with the exception of a few patches in the north western part of the township. The sandstone formation outcrops in the deeper canons and is usually horizontal. The north end of Buckskin valley occupies the southwestern corner of the township. The valley is gently rolling has a good rich sandy loam soil, about 2 to 4 ft. deep, but there are rocky streaks which would make it difficult to cultivate the land as dry farms and there is not sufficient water to irrigate any considerable portion of the land. This valley is about 600 ft. higher than Parowan valley. In the northern part of the township is a mesa occupying about 5 sections; this mesa is rolling and cut up considerably by washes but the soil is good rich sandy loam from 2 to 4 ft. deep; and most of it appears to be well adapted to dry farming. The soil in the bottom of Fremont canon is generally rich sandy and clay loam from 2 ft. to 10 ft. deep; in places the canon bottom is wide enough that good patches of farming land can be secured. There are some old fences and evidences of other improvements in sec. 15, but the place has evidently been abandoned for a number of years. Claimant unknown. There is a house, corral and some other improvements in sec. 32, at the North

Subdivision of T.31 S., R.6 W.-Continued.

Spring. The North Spring is good pure water, flows about 8 gals. per minute and drains Northwesterly but sinks a few hundred feet from the spring. Low Bros. owner of cabin. There is a good spring in sec. 15, not seen from line, this spring flows about 12 gals. per minute, rises in the wash in Fremont Canon and runs Northwesterly. The roads in this township were used in early days for ranching purposes and as wood roads but now they have almost disappeared from disuse.

The soil on the mountainous part of the township is generally a loam from the decomposition of volcanic rock; it is rich and productive but is generally mixed with volcanic rock large and small.

The whole township is pretty well covered with cedar and pinon pine timber. none of this timber is suitable for saw timber. There are a few patches of red and white pine and aspen timber in the eastern part of the township. All through the eastern part of the township, on the mesa and in Buckskin valley is a very dense growth of sage brush in many places exceeding four feet in height; oak, mahogany, and buck brush are also plentiful in the eastern part of the township, and only scattering in the western part.

Some good looking mineral bearing quartz was found in secs. 9 and 16; but not sufficient to return these sections as mineral land.

John R. Stewart

November 9, 1910.

J. Trinity Stewart

Instrumentman, G.L.O.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John R. Stewart
 Instrumentman G.L.O., ~~and six other assistants~~, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of
 Subdivision T.31 S., R.6 W. S.L.B. & M., Utah
 showing the respective capacities in which they acted:

✓ Frank S. Allen R. Bert Carter , Chainman.
 R. Bert Carter Vern O. Nelson , Chainman.
 Ruban W. Riley , Moundman.
 Isaac R. Hayes , Moundman.
 Isaac R. Hayes , Axman.
 Ruban W. Riley , Axman.
 Maeser Dalley , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John R. Stewart
 Instrumentman G.L.O., ~~and six other assistants~~, in surveying all
 those parts or portions of the Subdivision T.31 S., R.6 W.
 of the Salt ...
 Lake Base and meridian, State of Utah , which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for Utah

R. Bert Carter Frank S. Allen , Chainman.
 Vern O. Nelson , Chainman.
 Isaac R. Hayes, Axman and , Moundman.
 Ruban W. Riley , Moundman and , Axman.
 Maeser Dalley , Flagman.

Subscribed and sworn to before me this 9th }
 day of November 1910. }

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 & SEAL &
 cccccccc

John R. Stewart

Instrumentman G.L.O.
 For affidavits of Quinby Stewart's assistants see book "X" T.34 S.R.10 W.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for bearing date of the day of 190 , I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

For final oaths of transitmen see book #Z12# T. 31 S., R. 9 W.

..... of the meridian, in the of which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said and sworn to before me }
this day of 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914.

The foregoing field notes of the survey of the subdivisional lines of Township No. 31 South, Range No. 6 West of the Salt Lake Base and Meridian, Utah

John R. Stewart and Quinby Stewart
executed by their special instructions
under his contract No. A dated August 6, 1910, 1910, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

John R. Stewart
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-385

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M.L.B.

FIELD NOTES

OF THE SURVEY OF THE

SIXTH STANDARD PARALLEL SOUTH

through

Range 8 West

Of the Salt Lake Base and Meridian,

State of Utah.

AS SURVEYED BY

John R. Stewart and Quinby Stewart U.S. Transitmen, *United States Topographic Surveyor*Assignment Group 1 Under *his Contract No.*, dated August 6, 1910, 190

Survey commenced November 20, 1910, 190

Survey completed November 22, 1910, 190

NAMES AND DUTIES OF ASSISTANTS.

R. Bert Carter / Chainman

Verne O. Nelson / Chainman

Isaac R. Hayes / Chainman and Moundman

Ruban W. Riley / Chainman and Axman

For preliminary affidavits see book "K" T. 30 S., R. 7 W.

BOOK A-385

INDEX DIAGRAM.

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 190 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190 }



Retracement 6th Standard Parallel South, through Range 8 W.

Survey commenced November 20, 1910, and executed with a W. and L.E. Gurley Explorer's transit, No. 957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arc.

The instrument was examined & tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

I examine the adjustments of the instrument, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation; I proceed as follows:

At the Standard cor. of Tps. 30 S., Rs. 7 and 8 W., latitude $38^{\circ}09'30''$ N., longitude $112^{\circ}39'47''$ W., I set off $38^{\circ}09'30''$ N., on the lat. arc; $19^{\circ}38'30''$ S., on the decl. arc; and at 2 h 46 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground 5.00 chs. N. of the cor.; 2 ins. to the west of the meridian.

November 20, 1910.

November 21, 1910: At 3 h 31 m a.m., l.m.t., I observe Polaris at western elongation, in accordance with the Manual, and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor.;

At 8 h 0 m a.m., l.m.t., I lay off the azimuth of Polaris $122^{\circ}4'$ to the east and mark the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.41 ins. east of the meridian established by the solar.

Retracement 6th Standard Parallel S. through Range 8 W.

Chains

At 8 h 46 m a.m., l.m.t., I set off $38^{\circ}09'N.$, on the lat.arc; $19^{\circ}48'S.$, on the decl.arc; and mark the meridian determined by the solar by a cross on the stone already set 5.00 ins. N. of the cor.; this mark falls 0.39 ins. east of the meridian established by Polaris observation;

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0^{\circ}22'W.$ and $0^{\circ}21'E.$ of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian, at 8 h 50 m a.m., l.m.t., is $N.16^{\circ}02'W.$; the angle thus determined gives the mag.decl. $16^{\circ}02'E.$

Note before proceeding with the subdivision of T.31 S., R.8 W., I retrace the north bdy. or 6th standard Parallel south, through Range 8 W., as follows:

From the standard cor.of Tps.30 S., Rs.7 and 8 W., heretofore described, I run

West, on a retracement line along the standard Parallel.

40.00 Find no trace of the old standard sec.cor.

Set temp.cor.

82.00 Intersect Standard cor.of secs.35 and 36; which is a granite stone, 6x11x9 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

I continue the retracement and find the entire line out in distance and alinement and many of the corners missing altogether; Therefore as there is no subdivision depending on the standard I decide to resurvey the Standard West from the cor.of Tps.30 S., Rs.7 and 8 W. and to destroy the old cor.

November 21, 1910.

Resurvey 6th Standard Parallel South, through Range 8 W.-Continued.

Chains

November 22, 1910: At 8 h 46 m a.m., l.m.t., I set off $38^{\circ}09'$ N., on the lat.arc; $20^{\circ}01'$ S., on the decl.arc; and determine a meridian with the solar, at the cor.of Tps.30 S., Rs.7 and 8 W.

Thence I run

West, on S . side sec.36.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Asc.

6.00 Top of spur, 100 ft. above cor., bears N. 60° E. and S. 60° W.

Desc.

17.80 Bottom of swale, 60 ft. below spur, course S. 60° W.

Asc.

23.20 Intersect the closing cor.of Tps.31 S.,Rs.7 and 8 W., herebefore described.

26.00 Top of divide ridge between Farowan Valley and Beaver Valley, 100 ft. above swale, bears N. 70° E. and S. 70° W.

Desc.

Difference between measurements of 40.00 chs. by two sets of chainmen is 2 lks.; position of middle point

By 1st set 39.99 chs.

By 2nd set 40.01 chs.; the mean of which is

40.00 Find no/ trace of old cor.

Set an iron post 5 ft. long, 1 in. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for 1 sec.cor.mkd.on brass cap $\frac{1}{4}$ S 36 in N half; from which

A pinon pine, 6 ins., dia., bears N. 20° W., 8 lks.dist.

mkd..S C4. $\frac{1}{4}$ S 36 B T.

78.95 Bottom of swale, 170 ft. below ridge, course NW.

Asc.

Difference between measurements of 80.00 chs., by two sets of chainmen, is 4 lks.; position of middle point,

By 1st set, 79.98 chs.

Resurvey 6th Standard Parallel South, through Range 8, M.-Contd.

Chains	By 2nd set, 80.02 chs.; the mean of which is
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for standard cor. of secs. 35 and 36, mkd. on brass cap.
	T 30 S S 35 in NW.; and
	R 8 W S 36 in NE. quadrants; from which
	A cedar, 8 ins. dia., bears N. 22° E., 185 lks. dist.. mkd. T 30 S R 8 W S 36 B T.
	A pinon pine, 8 ins. dia., bears N. 75° W., 38 lks. dist.. mkd. T 30 S R 8 W S 35 B T.
	The old cor. bears West 2.00 chs. dist., which I destroy. Land, mountainous and broken.
	Soil, sandy loam mixed with rock; 2nd rate. subsoil, gravel Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	West, on S. side sec. 35
	Over mountainous land; through heavy cedar and pinon pine timber and scattering oak and sage brush.
	Asc.
9.00	Old wood road, bears N. and S.
29.00	Top of ridge, 200 ft. above cor., bears N. and S.
	Desc.
34.80	Bottom of hollow, 40 ft. below ridge, course N.
	Asc.
35.00	Leave timber, bears N. and S.
	Enter dense sage brush, bears N. and S.
38.60	Top of spur, 60 ft. above hollow, bears N. and S.
	Desc.

Resurvey 6th Standard Parallel South through R. 8 W.-Contd.

Chains	Land, rough and broken ridges and hollows. slopes and drains northerly. Soil, sandy loam about 1 ft. deep, mixed with volcanic rock. Timber, cedar and pinon pine. Undergrowth, sage and oak brush. Good grass for grazing. Mountainous or heavily timbered land, 80:00 chs.
	November 22, 1910: At this cor. I set off 20°03'S., on the decl. arc; and at 11 h 46 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°09'N., which is the proper lat. nearly.
	West, on a true line along south side sec. 34.
	Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
	Asc.
2.50	Top of ridge, 200 ft. above cor., bears N.15°E. and S.15°W.
	Desc.
23.50	Bottom of swale, 150 ft. below ridge, course N.
	Asc.
29.75	Top of ridge, 90 ft. above swale, bears N. and S.
	Desc.
35.60	Bottom of hollow, 80 ft. below ridge, course N.
	Asc.
	Difference between measurements of 40.00 chs. by two sets of chainmen, is 2 lks.; position of middle point, By 1st set 39,99 chs.
	By 2nd set 40.01 chs.; the mean of which is 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, for standard of sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 54 in H half; from which
	A pinon pine, 7 ins. dia., bears N.27°E., 10 lks. dist. mkd. Sdg $\frac{1}{4}$ S 54 B T.

Continued from page 270

See page 272 for completion of mile

Resurvey 6th Standard Parallel South, through R.8 W.-Contd.

Chains Continued from page 268	<p>Difference between measurements of 40.00 chs., by two sets of chainmen, is 4 lks.; position of middle point,</p> <p>By 1st set, 39.98 chs.</p> <p>By 2nd set 40.02 chs.; the mean of which is</p> <p>Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 35° in N half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. After diligent search found no trace of stand. $\frac{1}{4}$ sec. cor.</p> <p>Bottom of hollow, 100 ft. below cor., course N. Asc.</p> <p>Old wood road, bears N. and S.</p> <p>Enter heavy cedar and pinon pine timber, bears N. and S.</p> <p>Top of spur, 200 ft. above hollow, bears N. and S.</p> <p>Desc.</p> <p>Bottom of hollow, 50 ft. below spur, course N. 50° E. Asc.</p> <p>Difference between measurements of 80.00 chs., by two sets of chainmen, is 6 lks.; position of middle point,</p> <p>By 1st set, 79.97 chs.</p> <p>By 2nd set 80.03 chs.; the mean of which is</p> <p>Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on hard gravel, and surrounded by mound of earth and stone, for standard cor. of secs. 34 and 35. mkd. on brass cap</p> <p>T 50 S S 34 in NW.</p> <p>R 8 W S 35 in NE.; quadrants; from which</p> <p>A cedar, 8 ins. dia., bears N. 10° E., 10 lks.</p> <p>dist.. mkd. T 50 S R 8 W S 35 B T.</p> <p>A pinon pine, 8 ins. dia., bears N. 49° W., 48 lks.</p> <p>dist.. mkd. T 50 S R 8 W S 34 B T.</p> <p>The old standard cor. of secs. 34 and 35, which is a trachyte stone, 8x9x8 ins.; above ground, loosely set, and mkd. and witnessed as described by the surveyor general bears N. 55 lks. and west. 178 lks. I destroy all traces of the old cor.</p>
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Resurvey 6th Standard Parallel South, through Range 8 W.

Chains	
	November 23, 1910: At 8 h 46 m a.m., l.m.t., I set off 38°09' N., on the Lat.arc; 20°14'S., on the Decl.arc; and determine a meridian with the solar, at the standard cor. of secs. 33 and 34.
	Thence I run
	West, on south side of sec. 33.
	Over mountainous land; through heavy cedar and pinon pine timber and scattering oak, buck, and sage brush.
	Asc.
13.35	Top of ridge, 80 ft. above cor., bears N.25°E. and S.25°W.
	Desc.
30.20	Bottom of hollow, 210 ft. below ridge, course N.15°E.
	Asc.
54.50	Top of spur, 135 ft. above hollow, bears N.20°E. and S.20°W.
	Desc.
	Difference between measurements of 40.00 chs. by two sets of chainmen, is 6 lms.; position of middle point,
	By 1st set, 39.97 chs.
	By 2nd set 40.03 chs.; the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on rock, and surrounded by mound of stone, for standard 1/2 sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 53 in N half.; from which
	A cedar, 6 ins. dia., bears N.30°30'E., 34 lms. dist.
	mkd. S C. $\frac{1}{4}$ S 53 R. T.
	Note: The old standard 1/2 sec.cor. which is a trachyte stone 30x24x20 ins., lying on top of the ground, mkd. and witnessed as described by the surveyor general, bears N.101 lms. and west 306 lms. dist.; I destroy all traces of the old cor.
40.95	Bottom of hollow, 100 ft. below ridge, course North.
	Asc.
56.80	Leave heavy and enter scattering cedar and pinon pine ti

Continued from p 272

See page 273 for completion of mile

Resurvey 6th Standard Parallel South, through Range 8 W.-Contd.

See page 269 for beginning of mile.

Chains	
	Note:I search diligently but fail to find any trace of the old standard & sec.cor.
47.10	Top of ridge, 110 ft. above hollow, bears N.10°E. and S.10°W.
	Desc.
53.00	Bottom of hollow, 95 ft. below ridge, course N.15°E.
	Asc.
57.55	Top of ridge, 80 ft. above hollow, bears N.20°E. and S.20°W.
	Desc.
71.80	Bottom of hollow, 175 ft. below ridge, course N.35°E.
	Asc.
	Differnece between measurements of 80.00 chs. by two sets of chainmen, is 2 lks.; position of middle point,
	By 1st set, 79.99 chs.
	By 2nd set 80.01 chs.; the mean of which is
80.00	Set an iron post, 5 ft. long, 3 ins. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone for standard cor.of secs.33 and 34, mkd.on brass cap
	✓ T 30 S S 33 in NW.; and
	✓ R 8 W S 34 in NE.quadrants; from which
	A pinon pine, 16 ins.dia., bears N.12°30'E., 34 lks.
	dist..mkd.T 30 S R 8 W S 34 B T.
	A pinon pine, 8 ins.dia., bears N.56°W., 50 lks.
	dist..mkd.T 30, S R 8 W S 33 BT.
	Note:I search diligently but fail to fain any trace of the old cor.of secs.33 and 34.
	Land, rough and mountainous, slopes and drains north.
	Soil, sandy loam, rich and moist, but shallow and mixed with rock. Subsoil, sandstone and clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.
	November 22, 1910.

Continued on page 271

Resurvey 6th Standard Parallel South, through R. & W.-Continued.

Chains	timber.bears N.and S.
	Enter dense sage brush,bears N.and S.
57.00	Top of ridge,200 ft.above hollow,bears N.and S.
	Desc.
76.80	Bottom of hollow,200 ft.below ridge,coarse N.
	Asc.
	Difference between measurements of 80.00 chs. by two sets of chainmen, is 16 lks.; position of middle point,
	By 1st set, 79.95 chs.
	By 2nd set 80.05 chs.; the mean of which is
80.00	Set an iron post, 5 ft.long, 3 ins.in dia., 14 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for standard cor.of secs.32 and 55,mkd.on brass cap T 30 S 8 E 32 in NW. R 8 W S 55 in NE.; quadrants; from which A pinon pine, 6 ins.dia., bears N.19°E., 20 lks. dist..mkl.T 30 S R 8 W S 55 B T. A cedar, 3 ins.dia., bears N.25°W., 28 lks. dist..mkl.S 32 B T. Note: The old cor. which is a trachyte stone, 9x14x12 ins., above ground, firmly set, and mkl. and witnessed as described by the surveyor general, bears W.303 lks. and north 125 lks. I destroy all traces of the old cor. Land, mountainous with steep slopes and sharp ridges. drains north. Soil, sandy loam, rich and moist, about 18 ins.deep and mixed with volcanic rock and sandstone. Subsoil, sandstone and gravel. Timber, cedar and pinon pine. Undergrowth, sage brush, oak, and buck brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs. November 23, 1910: At this cor. I set off 20°16'S., on the decl. arc; and at 11 h 46' m a.m., l.m.t., I observe the sun

See page 271 for beginning of Mill

Resurvey 6th Standard Parallel South, through Range 8 West - Contd.

Chains on the meridian, the resulting lat. is $38^{\circ}09'N.$, which is the proper lat. nearly.

West, on S. side, of sec. 32 ..

Over mountainous land; through scattering cedar and pinon pine timber and dense sage brush; course parallel to Ascle over rocks.

5.50 Top of ridge, 60 ft. above cor., bears N. and S.

Desc. To top of ridge, 60 ft. above cor. N. and S.

24.00 Bottom of hollow, 500 ft. below ridge, course N. $30^{\circ}E.$

Asc. Along S. side of hollow, for 500 ft. mountainous

Difference between measurements of 40.00 chs. by two sets of chainmen, is 6 lbs.; position of middle point,

By 1st set, 39.97 chs.

By 2nd set 40.03 chs. the mean of which is

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for standard cor. of sec. 32, mkd. on brass cap S 32 in N half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Old cor. could not be found.

52.25 Top of ridge, 400 ft. above hollow, bears N. $10^{\circ} E.$ and S. $10^{\circ} W.$

Desc. To top of ridge, 400 ft. above hollow, quadrants, from

74.10 Bottom of canon, 400 ft. below ridge, course N.

Asc. Along S. side of canon, for 400 ft. mountainous

80.00 Difference between measurements of 80.00 chs. by two sets of chainmen, is 10 lbs.; position of middle point,

By 1st set, 79.95 chs.

By 2nd set, 80.05 chs.; the mean of which is

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 19 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for standard cor. of secs. 31 and 32, mkd. on brass cap S 30 in S 31 in NW.; and S 85 in S 86 in NE.

S 87 in S 88 in NE.; quadrants; and raise a mound of

Resurvey 6th Standard Parallel South, through R. & W.-Contd.

Chains	stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	The old cor. of secs. 31 and 32, which is a trachyte stone, 12x18x18 ins., above ground, fairly well set, and mkd. and witnessed as described by the surveyor general, bears North 203 lks. and West, 368 lks. I destroy all traces of the old cor.
	Land, mountainous, steep slopes and sharp ridges. slopes and drains northward.
	Soil, sandy loam about 18 ins. deep, mixed with rock. Subsoil clay and gravel.
	Timber, scattering cedar and pinon pine.
	Undergrowth, dense sage, mahogany and buck brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	Over mountainous land; through scattering cedar and pinon pine timber and dense sage and mahogany brush.
	West, along S. side of secs. 31.
	Over mountainous land; through scattering cedar and pinon pine timber and dense sage and mahogany brush.
	Asc.
22.00	Top of ridge, 400 ft. above cor., bears NW and SE.
	Desc.
39.10	Bottom of hollow, 200 ft. below ridge, course S.
	Asc.
	Difference between measurements of 40.00 chs. by two set of chainmen, is 2 lks.; position of middle point, 39.99 chs. By 1st set, 39.99 chs.
	By 2nd set 40.01 chs.; the mean of which is
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on rock, and surrounded by mound of earth and stone, for standard 1/4 sec. cor.. mkd. on brass cap 1/4 S 31 in N half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Resurvey 6th Standard Parallel South, through Range 8 W.-continued.

Chains	Note: The old cor. cannot be found after diligent search.
56.75	Top of spur, 240 ft. above hollow, bears. NW and SE.
	Desc.
	Enter heavy cedar and pinon pine timber, bears. NW and SE.
71.30	Bottom of swale, 90 ft. below spur, course SE.
	Asc.
89.75	Intersect old Standard cor. of Tps. 30 S., Rs. 8 and 9 W., which is a sandstone, 17x9x6 ins., above ground, loosely set and mkd. and witnessed as described by the surveyor general. I destroy the old cor. and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for standard cor. of Tps. 30 S., Rs. 8 and 9 W., mkd. on brass cap T 30 S in N half. R 9 W S 36 in NW.; and R 8 W S 31 in NE. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
Land, mountainous.	
	Timber, cedar and mahogany.
	Undergrowth, sage brush.
	Good grass.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 89.95 chs.
	The course of this line is West, 89.75 chs.
	John R Stewart U.S. Transitman.

TRANSITMAN

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John R. Stewart.....

Instrumentman G.L.O., United States Deputy Surveyor to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Retracement.....

6th Standard Parallel S.; through Range 7 W.; and Resurvey 6th Standard Parallel South, through Range 8 W. S.L.P. & M., Utah. showing the respective capacities in which they acted:

R. Bert Carter / Chainman.

Verner O. Nelson / Chainman.

Isaac R. Hayes / Chainman and Moundman.

Hubert W. Riley / Chainman and Axman.

....., Axman., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John R. Stewart.....

Instrumentman G.L.O., United States Deputy Surveyor in surveying all those parts or portions of the Retracement 6th Standard Par. S.; through Range 7 W., and Resurvey 6th Standard Parallel South, through Range 8 West.....

..... of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

R. Bert Carter Chainman.

Verner O. Nelson Chainman.

Isaac R. Hayes Chainman and Moundman.

....., Moundman., Axman.

....., Axman., Flagman.

Subscribed and sworn to before me this 23rd day of November 1910, 1900 }

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O SEAL O
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John R. Stewart
Instrumentman G.L.O.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 190_____, I have well, faithfully, and truly; in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final oath of transitman see book "Z9" T.31 S., R.11 W.

of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914

re
The foregoing field notes of the survey of the Sixth Standard Parallel South through Range No. 8 West of the Salt Lake Base and Meridian, Utah,

executed by John R. Stewart
under his contract No. A _____, dated August 6, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kelly
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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Page

4-679.

BOOK A-385

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FILED

APR 15 1911

FIELD NOTES

K.S.B.

OF THE SURVEY OF THE

WEST BOUNDARY
And

RETRACMENT AND RESURVEY SOUTH BOUNDARY

of

Township No. 31 South, range No. 8 West,

Of the Salt Lake Base and Meridian,

State of Utah "

AS SURVEYED BY

John R. Stewart and Quimby Stewart U.S. Transition

Assignment Group
Under Contract No. 1 dated August 6, 1910.Survey commenced November 21, 1910. Survey completed November 30, 1910.

6-151

Pete. A. Bdy. 1-00-00

Ris " " 3-00-90

Rise W " 6-10-10

NAMES AND DUTIES OF ASSISTANTS.Maeser DalleyChainmanHarvey W. ElliottChainmanAlton IvieMoundmanMilo NelsonAxman

BOOK A-385

INDEX DIAGRAM.

Township 31 South, Range 8 West

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Maeser Dalley..... and Harvey W. Elliott.....

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Resurvey S. and W. bdy. T. 31 S., R. 8 W.; Resurvey S. bdy. T. 32 S., R. 9 W.

Resurvey W. bdy. T. 33 S., R. 9 W., S.L.B. & M. Utah.

Maeser Dalley, Chainman

Harvey W. Elliott, Chainman

Subscribed and sworn to before me this 21st.....
day of November 1910. xxx



Quinby Stewart
Instrumentman G.I.O.

xxx, I, Alton Ivie..... xxx

do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given us to the best of our skill and ability, in the survey of

Resurvey S. and W. bdy. T. 31 S., R. 8 W.; Resurvey S. bdy. T. 32 S., R. 9 W.

Resurvey W. bdy. T. 33 S., R. 9 W., S.L.B. & M. Utah.

Alton Ivie, Moundman

Moundman

Subscribed and sworn to before me this 21st.....
day of November 1910. xxx



Quinby Stewart
Instrumentman G.I.O.

xx, I, Milo Nelson..... xxx

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given us to the best of our skill and ability, in the survey of

Resurvey S. and W. bdy. T. 31 S., R. 8 W.; Resurvey S. bdy. T. 32 S., R. 9 W.

Resurvey W. bdy. T. 33 S., R. 9 W., S.L.B. & M. Utah.

Milo Nelson, Axman

Axman

Subscribed and sworn to before me this 21st.....
day of November 1910. xxx



Quinby Stewart
Instrumentman G.I.O.

I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

Flagman

Subscribed and sworn to before me this _____

day of _____, 190_____



Retracement South bdy. T.31 S., R.8 W.-Continued.

Chains

Survey commenced November 21, 1910, and executed with a Young and Sons light mountain transit, No. 7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination wires.

The instrument was examined, tested on the meridian, at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

Note: For test of instrument see notes of Retracement Sub. T.31 S., R.8 W.

At the cor. of secs. 3, 4, 33, and 34, heretofore described, on S. bdy. of Tp., I set off $58^{\circ}04' N.$, on the lat. arc; $19^{\circ}48' S.$, on the decl. arc; and determine a meridian with the solar at 8 h 46 m. a.m., Jun. 6.

Note: Before beginning the subdivision of this township I proceed to retrace the south bdy. of Tp..

Therefore I run

West, on a retracement line bet. secs. 4 and 33.

Over mountainous land; through dense sage brush.

Done.

5.00 Bottom of swale, 10 ft. below cor., course SE.

Ace.

14.75 Enter scattering cedar and pinon pine timber, bears N. and E.

19.70 Top of spur, 370 ft. above swale, bears NW and S. E.

Done.

27.10 Bottom of swale, 80 ft. below spur, course SE.

Ace.

36.00 Top of ridge, 150 ft. above swale, bears N. 20°W. and S. 20°E.

Done.

40.00 Fall 8 lbo. South of the 4 sec. cor. bet. secs. 4 and 33, which is a granite stone, 9x10x10 ins., above ground, firmly set, and md. and witnessed and described by the surveyor general.

Retracement South.bdy.T.31 S., R.8 W.-Continued.

Chains

- I destroy the old cor. and re-establish it in the same place as follows:
- Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 33 in N half; and S 4 in S half; from which
- A pinon pine, 10 ins. dia., bears N.80°W., 17 lks. dist.. mkd. $\frac{1}{4}$ S 33 B T.
- A cedar, 12 ins. dia., bears S.58°E., 75 lks. dist.. mkd. $\frac{1}{4}$ S 4 B T.
- 46.10 Bottom of hollow, 200 ft. below ridge, course S.30°E.
Asc.
- 47.50 Top of spur, 40 ft. above hollow, bears N.30°W. and S.30°E.
Desc.
- 55.90 Bottom of hollow, 50 ft. below spur, course SE.
Asc.
- 56.60 Road; bears NW and SE.
- 80.00 Fall 18 lks. South of the cor.of secs.5,4,32, and 33, which is a granite, 9x10x8 ins., above ground, fairly well set, and mkd. and witnessed as described by the surveyor general. The cor. is poorly mkd. therefore I destroy the old cor. and re-establish it in the same place as follows.
- Set an iron post, 3 ft. long, 3 ins. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor.of secs.4,5,32, and 33, mkd.on brass cap T 31 S S 32 in NW.
- R 8 W S 33 in NE.
- R 8 W S 4 in SE.; and
- (T 32 S S 5 in SW. quadrants; from which
- A pinon pine, 10 ins. dia., bears N.10°E., 61 lks. dist.. mkd. T 31 S R 8 W S 33 B T.
- A pinon pine, 10 ins. dia., bears S.41°E., 88 lks. dist.. mkd. T 32 S R 8 W S 4 B T.
- A pinon pine, 5 ins. dia., bears S.47°30'W., 51 lks. dist.. mkd. T 32 S R 8 W S 5 B T.

Retracement South bdy.T.31 S., R.8 W.-Continued.

Chains

A cedar, 7 ins. dia., bears N.41°W., 117 lks.

dist..mkd.T 32 S R 8 W S 32 B T.

The course of this line is therefore N.89°52'W., 80.00 chs.

Land, rolling ridges and hollows, slopes and drains southeast

Soil, sandy loam about 2 ft. deep, mixed with cobble rock.

Subsoil, gravel and clay.

Timber, cedar and pinon pine, on west 65.00 chs.

Undergrowth sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

November 21, 1910: at this cor. I set off 19°50'S., on the decl. arc; and at 11 h 46 m a.m., l. m.t., I observe the sun on the meridian, the resulting lat. is 38°04'N., which is the proper lat. nearly.

S.88°56'W., on a retrace ment line bet. secs. 5 and 32.

40.55 Fall 32 lks.N. of the 1 sec.cor.bet.secs.5 and 32, which is a granite stone, 14x8x6 ins., lying on top of ground, mkd. and witnessed as described by the surveyor general.

80.71 Fall 65 lks.N. of the cor.of secs.5, 6, 31, and 32, which is granite stone, 6x8x4 ins., above ground, firmly set and mkd and witnessed as described by the surveyor general.

S.88°56'W., on a retrace ment line bet.secs.6 and 31.

40.16 Fall 28 lks.N. of the 1 sec.cor.bet.secs.6 and 31, which is a granite stone, 6x10x6 ins., above ground, poorly set, and mkd. and witnessed as described by the surveyor general.

81.21 Fall 115 lks.N. of the cor.of Tps.31 and 32, S., Rs.8 and 9 W., which is a granite stone, 11x8x6 ins. above ground, firmly

Retracement South,bdy.T.31 S.,R.8 W.-Continued.

Chains	<p>set, and mkd. and witnessed as described by the surveyor general.</p> <p>Note: As this line is out of limits in alinement and measurement from a west line and as there is no subdivision depending on it I decide to resurvey the line beginning at the cor.of secs.4,5,32, and 33, and running due west.</p>
	November 21, 1910.
	<p>✓ November 22, 1910: At 8 h 46 m a.m., l.m.t., I set off 38°04' M., on the lat.arc; 20°01'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.4,5,32, and 33.</p>
	<p>Thence I run</p> <p>West, on resurvey line bet.secs.5 and 32.</p> <p>Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.</p>
	<p>Asc.</p> <p>5.30 Top of ridge, 60 ft.above cor., bears N.and S.</p> <p>Desc.</p> <p>9.00 Bottom of hollow, 85 ft.below ridge, course N.</p> <p>Asc.</p> <p>16.10 Top of spur, 30 ft above hollow, bears N.and S.</p> <p>Desc.</p> <p>17.50 Bottom of hollow, 30 ft.below ridge, course N.10°E.</p> <p>Asc.</p> <p>31.10 Top of ridge, 120 ft.above hollow, bears N.and S.</p> <p>Desc.</p> <p>38.00 Bottom of hollow, 150 ft.below ridge, course S.</p> <p>Asc.</p> <p>40.00 The old $\frac{1}{2}$ sec.cor.bet.secs.5 and 32 bears S.107 and West 35 lks. I destroy the old cor.</p> <p>Set an iron post, 3 ft.long, 1 in.in dia., 20 ins.in the</p>

Resurvey South bdy. T.31 S., R.8 W.-Continued.

- Chains ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap. $\frac{1}{4}$ S 32 in N half and S 5 in S half; from which
- ✓ A pinon pine, 6 ins. dia., bears N.20°E., 12 lks.
 - ✓ dist.. mkd. $\frac{1}{4}$ S 32 B T.
 - ✓ A pinon pine, 16 ins. dia., bears S.57°W., 50 lks.
 - ✓ dist.. mkd. $\frac{1}{4}$ S 5 B T.
- 40.20 Top of ridge, 60 ft. above hollow, bears N. and S.
- Desc.
- 42.40 Bottom of hollow, 35 ft. below ridge, course S.
- Asc.
- 50.00 Top of ridge, 70 ft. above hollow, bears N.15°E. and S.15°W.
- Desc.
- 59.66 Wood road, bears N. and S.
- Bottom of hollow, 150 ft. below ridge, course S.
- Asc.
- 80.00 The old cor. bears West 71 lks. and South 215 lks. dist.; I destroy the old cor.
- Set an iron post 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone for cor. of secs. 4, 5, 32, and 33, mkd. on brass cap.
- ✓ T 31 S S 31 in NW.
 - ✓ E 8 W S 32 in NE.
 - ✓ E 8 W S 5 in SE.; and
 - ✓ T 32 S S 6 in SW. quadrants; from which
 - ✓ A cedar, 14 ins. dia., bears N.9°30'E., 67 lks.
 - ✓ dist.. mkd. T 31 S R 8 W S 32 B T.
 - ✓ A cedar, 16 ins. dia., bears S.42 °E., 34 lks.
 - ✓ dist.. mkd. T 32 S R 8 W S 5 B T.
 - ✓ A pinon pine, 5 ins. dia., bears S.68°W., 59 lks.
 - ✓ dist.. mkd. T 32 S R 8 W S 6 B T.
 - ✓ A pinon pine, 4 ins. dia., bears N.64°30'W., 61 lks
 - ✓ dist.. mkd. T 31 S R 8 W S 31 B T.
- Land, mountainous and rough.
- Timber, cedar and pinon pine.

Resurvey South bdy.T.31 S., R.8 W.-Continued.

Chains	<p>Soil, hard sandy loam mixed with gravel.; 3rd rate.</p> <p>Subsoil, gravel.</p> <p>Undergrowth, sage and oak brush.</p> <p>Some good grass.</p> <p>Mountainous or heavily timbered land, 80.00 chs.</p> <p>November 22, 1910: At this cor. I set off 20' 03" S., on the decl. arc; and at 11 h 46 m a.m.; l.m.t., I observe the sun on the meridian the resulting lat is 38° 04' N., which is the provr lat. nearly.</p> <p>West, on a resufvey line bet.secs.6 and 31.</p> <p>Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.</p> <p>Asc.</p> <p>4.10 Top of ridge, 85 ft. above sec.cor., bears N.10°W. and S.10°E.</p> <p>Desc.</p> <p>10.05 Bottom of hollow, 75 ft. below ridge, course S.</p> <p>Asc.</p> <p>15.30 Top of spur, 90 ft. above hollow, bears N. and S.</p> <p>Desc.</p> <p>39.50 Bottom of hollow, 100 ft. below spur, course S.</p> <p>Asc.</p> <p>40.00 Fall 86 lks. East and 318 lks. North of the old $\frac{1}{4}$ sec.cor. bet.secs.6 and 31, heretofore described; I destroy the old cor. Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor., mkd. on brass cap $\frac{1}{4}$ S 31 in N half and S 6 in S half; from which</p> <p>A cedar, 6 ins. dia., bears N.70°E., 67 lks.</p> <p>dist.. mkd. $\frac{1}{4}$ S 31 B.T.</p> <p>A pinon pine, 6 ins. dia., bears S.61°E., 56 lks.</p>
--------	---

Resurvey South bdy.T.31 S., R.8 W.-Continued.

Chains	✓ lks.dist..mkd.1 S 6 B T.
48.40	Top of ridge, 50 ft. above hollow, bears N. and S. Desc.
58.00	Bottom of hollow, 100 ft. below ridge, course S.10°E. Asc.
62.80	Top of spur, 40 ft. above hollow, bears N.15°W. and S15°E. Desc.
65.30	Bottom of hollow, 40 ft. below ridge, course S.20°E. Asc.
67.50	Top of spur, 25 ft. above hollow, bears N20°W. and S.20°E. Desc.
73.50	Bottom of hollow, 80 ft. below spur, course S.15°E. Asc.
81.00	Fall 415 lks. North of the old cor.of Tps.31 and 32 S., Rs.8 and 9 W ., heretofore described..I destroy the old cor. Set an iron post, 5 ft.long, 3 ins.in dia.,19 ins.in the ground, on solid rock, and surrounded by moundsof earth and stone, for cor.of Tps.31 and 32 S.,Rs.8 and 9 W. mkd.on brass cap
	✓ T 31 S in N half.
	✓ T 32 S in S half;
	✓ R 9 W S 36 in NW.
	✓ R 8 W S 31 in NE.
	✓ R 8 W S 6 in SE.; and
	✓ R 9 W S 1 in SW.quadrants; from which
	A pinon pine, 8 ins.dia., bears N.4°E., 9 lks. dist..mkd.T 3 1 S R 8 W S 31 B T.
	A pinon pine, 8 ins.dia., bears S.17°30'E., 37 lks. dist..mkd.T 32 S R 8 W S 6 B T.
	A cedar, 10 ins.in dia., bears S.10°30'W., 26 lks. dist..mkd.T 32 S R 9 W S 1 B T.
	A cedar, 6 ins.dia., bears N.65°W., 91 lks. dist..mkd.T 31 S R 9 W S 36 B T.

Resurvey S.bdy.T.31 S., R.8 W.-Continued.

	Chains	<p>Land, mountainous .</p> <p>Soil, sandy loam mixed with rock; 3rd rate, about 1 ft. deep,</p> <p>Subsoil, gravel and clay.</p> <p>Good grass for grazing.</p> <p>Mountainous or heavily timbered land, 81.90 chs.</p>
		November 22, 1910.
		<i>Dunby Stewart</i>
		Instrumentman G.L.O.
		West Boundary.
		November 29, 1910: At 8 h 48 m a.m., l. m.t., I set off 38°04' N., on the lat.arc; 21°23' S., on the decl.arc; and determine a meridian with the solar, at the cor.of Tps.31 and 32, S. Rs.8 and 9 W., heretofore described.
		Note: On account of establishing a new cor.of Tps.31 and 32 S., Rs.8 and 9 W., It becomes necessary to resurvey the west bdy.of Tp. therefore I run
		North, bet.secs.31 and 36.
		Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
		Desc.
2.85		Bottom of hollow, 35ft. below cor., course E.
		Asc.
15.60		Top of ridge, 200 ft above hollow, bears N.65°W. and S.65°E.
		Desc.
20.10		Bottom of hollow, 50 ft. below ridge, course S.50°E.
		Asc.
25.00		Top of ridge, 80 ft. above hollow, bears N.55°W. and S.55°E.

Resurvey West boundary T.51 S., R.6 W.-Continued.

Chains	
	Desc.
35.00	Bottom of hollow, 100 ft. below ridge, course NW.
	Asc.
40.00	The old cor. bears N.43°0' chs. and W.15°11' lks. I destroy the old cor.
	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for 1/4 sec.cor.. mkd.on brass cap 1/4 S 56° in W half and S 51° in E half; from which
	A pinon pine, 7 ins. dia., bears N.38°E., 89 lks. dist.. mkd. 1/4 S 51 B T.
	A pinon pine, 8 ins. dia., bears N.74°W., 76 lks. dist.. mkd. 1/4 S 56 B T.
42.00	Top of spur, 40 ft. above hollow, bears E. and W.
	Desc.
45.00	Enter dense sage brush, bears NE and SW.
54.10	Bottom of hollow, 50 ft. below spur, course S.80°W.
	Asc.
70.00	Old road, bears NE and SW.
	Bottom of hollow, course SW.
	Asc.
80.00	No trace of the old cor. could be found.
	Set an iron post, 3 ft. long, 3 ins. in dia., 16 ins. in the ground, on rock, and surrounded by mound of earth and stone for Cor. of secs. 25, 30, 31, and 36, mkd.on brass cap 1/4 T 31 S in N half; 1/4 R 9 W S 25 in NW. 1/4 R 8 W S 30 in NE. 1/4 S 31 in SE.; and 1/4 S 36 in SW. quadrants; from which
	A pinon pine, 8 ins. dia., bears N.66°30'E., 40 lks. dist.. mkd. T 31 S R 8 W S 30 B T.
	A cedar, 5 ins. dia., bears S.13°30'E., 144 lks. dist.. mkd. T 31 S R 8 W S 31 B T.
	A pinon pine, 13 in. dia., bears S.40°W., 127 lks.

Resurvey West boundary. T. 31 S., R. 8 W.-Continued.

- Chains
dist..mkd.T 31 S R 9 W S 36 B T.
A pinon pine, 4 ins. dia., bears N. 68° W., 22 lks.
dist..mkd.T 31 S R 9 W S 25 B T.
Land, mountainous with steep slopes and sharp ridges covered with rock.
Soil, sandy and clay loam about 18 ins. deep and rich and moist .
Subsoil, clay and gravel.
Timber, cedar and pinon pine.
Undergrowth, sage brush .
Good grass for grazing.
Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
-
- North, bet. secs. 25 and 30.
Over mountainous land; through scattering cedar and pinon pine timber and dense oak, mahogany and sage brush.
Asc.
21.60 Leave timber, bears E. and W.
40.00 The old 1 sec.cor. bet. secs. 25 and 30, which is a trachyte, 14x8x8 ins., above ground, mkd. and witnessed as described by the surveyor general, bears South 5.70 chs. and west, 10 lks. I destroy the old cor.
Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for 1 sec.cor.. mkd. on brass cap 1 S 25 in W half and S 30 in E half; and raise a mound of stone, 2 ft. base 1 1/2 ft. high, W. of cor.
42.70 Feet of conglomerate ledge, 50 ft. high, bears E. and W.
62.30 Top of ridge, 400 ft. above 1 sec.cor., bears E. and W.
This is the divide ridge between Parowan valley and Beaver Valley.
Dess.
77.62 Intersect the old cor. of secs. 19, 24, 25, and 30, which is a

Resurvey West bdy.T.31 S., R.8 W.-Continued.

Chains	granite stone, 14x8x6 ins., lying on the surface, mkd. and witnessed as described by the surveyor general. I destroy the old cor.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 16 ins. in the ground, on cemented gravel; and surrounded by mound of earth and stone, for cor. of secs. 19, 24, 25, and 30, mkd. on brass cap * T 31 S in N half; * R 9 W S 24 in NW. * R 8 W S 19 in NE. * S 30 in SE.; and * S 25 in SW. quadrants; and raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor. Land, mountainous and steep. Soil, sandy and clay loam about 3 ft. deep, mixed with gravel. Timber, cedar and pinon pine. Undergrowth, oak, sage, and mahogany. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs. November 29, 1910: At the noon hour the sky is overcast and solar observations are impossible.
	North, bet. secs. 19 and 24. Over mountainous land; through dense sage brush. Asc.
5.80	Top of spur, 30 ft. above cor., bears E. and W. Desc.
10.00	Bottom of hollow, 20 ft. below spur, course W. Asc.
33.10	Top of ridge, 35 ft. above hollow, bears E. and W. Desc.
40.00	Find no trace of the old cor. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the

Resurvey W.bdy.T.31 S., R.8 W.-Continued.

Chains	ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 24 in W half. and S 19 in E half;dig pits,18x18x12 ins.N.and S.of post,3 ft.dist.;and raise a mound of earth $3\frac{1}{2}$ ft.base,1 $\frac{1}{2}$ ft.hgh,W.of cor.
55.00	Bottom of hollow,85 ft.below spur,course NE. Asc.
60.50	Top of ridge,40 ft above hollow,bears N.20°E.and S.20°W. Desc
66.30	Bottom of hollow,35 ft.below ridge,course NE. Asc.
75.85	Top of ridge,50 ft.above hollow,bears NE and SW. Desc.
79.50	Fall 30 lks.West of the old cor.of secs.13,18,19, and 24, which is a granite stone,9x8x6 ins.,above ground,firmlly set, and mkd.and witnessed as described by the surveyor general. I destroy the old cor.
80.00	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.13,18,19, and 24,mkd.on brass cap ✓ T 31 S in N half; ✓ R 9 W S 15 in NW. ✓ R 8 W S 18 in NE. S 19 in SE.;and S 24 in SW.quadrants;and raise a mound of stone 2 ft.base,1 $\frac{1}{2}$ ft.hgh,W.of cor. Land,mountainous,gradual slopes,drains north. Soil,black loam about 8 ins deep,gravelly subsoil. No timber. Undergrowth,sage brush. No grass. Mountainous land,or land covered with dense undergrowth. 80 chw.

November 29, 1910.

November 30, 1910:At 8 h 48 m a.m.,l.m.t.,I set off 38°07'

Resurvey West bdy.T.31 S., R.8 W.-Continued.

Chains

N., on the lat.arc; 21°53' S., on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 13, 16, 19, and 24.

Thence I run

North, bet. secs. 13 and 16.

Over rolling mountainous land; through dense sage brush.

Desc.

1425 Bottom of hollow, 96 ft. below cor., bears N.15°E.,
Asc.

38.00 Top of spur, 50 ft. above hollow, bears E. and W.
Desc.

40.00 Find no trace of the old cor.
Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 13 in W half; and S 18 in E half; dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.. and raise a mound of earth, $5\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

45.80 Bottom of hollow, 40 ft. below spur, course NE.
Asc.

51.00 Top of spur, 80 ft. above hollow, bears N.20°E. and S.20°W.
Desc.

80.00 The old cor. which is a granite stone, 14x9x7 ins., on top of ground, mkd. and witnessed as described by the surveyor general. I destroy the old cor.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, mkd. on brass cap T 31 S in N half

\checkmark R 9 W S 12 in NW.

\checkmark R 8 W S 7 in NE.

\checkmark S.18 in SE.; and

\checkmark S.13 in SW. quadrants; dig pits, 18x18x12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, rolling mountainous.. slopes north.

Resurvey West bdy. T.31.S., R.8.W.-Continued.

Chains	Soil, black sandy loam mixed with rock, about 18 ins. deep, Subsoil, gravel and hard clay. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	North, bet. secs. 7 and 12.
	Over mountainous land; through dense sage brush.
	Desc.
1.50	Bottom of hollow, 25 ft. below cor., course NE.
	Asc.
9.40	Top of ridge, 150 ft. above hollow, bears NE and SW.
	Desc.
33.00	Bottom of hollow, 500 ft. below ridge; course NE.
	Asc.
40.00	Top of ridge, 180 ft. above hollow, bears NE and SW. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 12' in W half and S 7' in E half; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Desc.
56.40	Bottom of canon, 350 ft. below ridge, course S. 80° E.
	Asc.
70.00	Top of ascent, 400 ft. above canon, bears N. 80° W. and S. 80° E. Thence over flat top ridge.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, mkd. on brass cap R 31 S in N half. R 9 W S 1 in NW. R 8 W S 6 in NE.

RESURVEY WEST bdy. T. 31 S.R.8 W.-Continued.

CHAINS

S 7 in SE. and

S 12 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Find no trace of the old cor.

Land, rolling mountains.

Soil, black sandy loam about 14 ins. deep; 2nd rate, contains some rock. Subsoil, gravel. No timber.

Undergrowth, sagebrush. A very little grass.

Mountainous land, or land covered with dense undergrowth, 80.00 chs.

NOVEMBER 30, 1910: At the noon hour the sky is overcast and solar observations are impossible.

North, bet. secs. 1 and 6.

Over mountainous land; through dense sage brush.

Over top of ridge.

1.10 Leave ridge top, bears NW. and SE. Desc.

21.40 Bottom of hollow, 250 ft. below ridge, course E. Asc.

38.50 Top of ridge, 200 ft. above hollow bears N. 60° W. and S. 60° E. Desc.40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 1 in W. half; and S 6 on E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

61.00 Bottom of hollow, 200 ft. below ridge, course E. Asc.

90.10 Intersect 6th Standard Parallel South, 14.96 chs.

N. $89^{\circ}39'W.$, of the Standard cor. of Tps. 30 S., Rs. 8 and 9 W., heretofore described.Set an iron post, 3 ft. long, 3 ins. dia., $2\frac{1}{4}$ ins. in the ground, for closing cor. of Tps. 31 S., Rs. 8 and 9 W. mkd. on brass cap

T 30 S R 8 W R 9 W S 31 S 36 in N half.

C C T 31 S in S half.

R 8 W S 6 in SE.; and

W. bdy. T. 31 S., R. 8 W.-Continued.

R 9 W S 1 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high S. of cor. Land, mountainous. Soil, gravelly loam; 2nd rate. Undergrowth, sagebrush and mahogany. No timber. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 90.10 chs.

NOVEMBER 30, 1910,

Gurnby Stewart
Instrumentman, G.L.O.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

LINE DESIGNATED	COURSE	DIST- ANCE	LATITUDES		DEPARTURES	
			N. CHS.	S. CHS.	E. CHS.	W. CHS.
W. bdy. T. 31 S.R.8 W. North	North	490.10	490.10			
N. bdy. T. 31 S.R.8 W. S.89°39'E.	E. 14.96				14.96	
N. bdy. T. 31 S.R.8 W. East	466.55				466.55	
E. bdy. T. 31 S.R.8 W. South	330.91		330.91			
S. bdy. sec. 24 W. West	80.04				80.04	
S. bdy. sec. 23 N.89°57'W.	79.96 .07				79.96	
E. bdy. sec. 27 South	80.10			80.10		
S. bdy. sec. 27 N.89°56'W.	80.05 .09				80.05	
E. bdy. sec. 33 South	79.91		79.91			
S. bdy. T. 31 S.R.8 W. N.89°52'W.	80.00 .49				80.00	
S. bdy. T. 31 S.R.8 W. West	161.90				161.90	
Convergence					.50	
TOTALS.....			490.75	490.92	482.01	481.95
					490.75	481.95
ERROR IN LAT.					.17 Dep.06	

FOR GENERAL DESCRIPTION SEE SUB. OF TP.

Gurnby Stewart
Instrumentman, G.L.O.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**LIST OF NAMES.**

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

_____, *Chairman.*

_____, *Chairman.*

For list of names and final oath of assistants see book "V", *Moundman.*

T. 33 S., R. 9 W., *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all

those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for _____

_____, *Chairman.*

_____, *Chairman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of _____ day of _____, 190_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final oath of transitman see book Z¹¹ T. 31 S R. 9 W. Quinby Stewart.

For final oath of John R. Stewart Transitman see book Z⁵ T. 32 S R. 11 W. meridian, in the _____ of _____, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914

The foregoing field notes of the survey of _____ the west, and retracement and re-survey of the south boundary of Township No. 31 South, Range No. 8 West of the Salt Lake Base and Meridian, Utah,

executed by _____ Quinby Stewart
under his contract No. _____, dated August 6, 1910, 190_____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

James H. Nell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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Filed Apr. 25, 1911.
WSH.

4-679

Ex.FAS.

BOOK A-385

"R"

FIELD NOTES

J.36,

OF THE SURVEY OF THE

S.U.B.D.I.V.I.S.I.O.N.

O F

TOWNSHIP NO. 31 SOUTH, RANGE NO. 8 WEST

Of the SALT LAKE BASE AND Meridian,

In the State of U T A H.

EXECUTED BY

JOHN R. STEWART AND QUINBY STEWART

In the capacity of U. S. Surveyors, under instructions dated Aug. 6, 1910,
issued by the United States Surveyor General to govern surveys included in
Group No. 1, which were approved by the Commissioner of the General Land
Office, Aug. 25, 1910, pursuant to authority contained in the Act of
Congress dated , 1911.

Survey commenced November 16, 1910,

Survey completed December 3, 1910.

NAMES AND DUTIES OF ASSISTANTS.

R.Bert Carter,. Chainman.
 Verne O.Nelson, Chainman.
 Isaac R.Hayes, Moundman.
 Ruban W.Riley, Axman.

Maeser Dalley, Chainman.
 Harvey W.Elliott, Chainman.
 Alton Ivie, Moundman.
 Milo Nelson, Axman.

For preliminary affidavits see book "L" T.31 S., R.7 W.

INDEX DIAGRAM.

Township 31 South Range 8 West

6	73	5	.53	4	39	3	.28	2	19	1
72		70		51		38		27		19
7	69	8	50	9	37	10	26	11	17	12
68		67		49		36		25		16
18	65	17	48	16	34	15	24	14	14	13
64		63		47		33		22		13
19	61	20	46	21	32	22	21	23	18	24
60		59		44		31		4		2
30	58	29	43	28	30	27	5	26		25
57		55		42		7				
31	54	32	40	33	9	34		35		36

Retracement Subdivision T. 31 S., R. 8 E.

Survey commenced November 16, 1910, and executed with a Young and Sons light mountain transit No. 7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah, on August 6, 1910.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation, I proceed as follows:

At the cor. of secs. 19, 24, 25, and 30, on E.bdy. of Tp., heretofore described; lat. $38^{\circ} 06' 01''$ N.; long. $112^{\circ} 39' 47''$ W., I set off $38^{\circ} 06' N.$ on the lat.arc; $18^{\circ} 41' S.$ on decl.arc; and at 3h 45m p.m.l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground 5.00 chs. N.of the cor.

November 16, 1910.

November 17, 1910: At 3h 43m a.m.l.m.t., I observe Polaris at western elongation in accordance with the Manual and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground 5.00 chs. N.of the cor.

At 8h 0 m.a.m.l.m.t., I lay off the azimuth of Polaris $1^{\circ} 29.4'$ to the east and mark the meridian thus determined by a groove cut in the stone already set 5.00

Retracement Subdivision T.31 S., R.R. 8 W.-Continued

chs.N.of the cor.; this mark falls 0.29 ins.east of the meridian established by the solar.

At 8h 45m a.m.l.m.t., I set off $38^{\circ} 06'N$.on the lat.arc; $18^{\circ} 51'S$.on the decl.arc; and mark the meridian determined with the solar, by a cross on the stone already set 5.00 chs.N.of the cor.; this mark falls 0.32 ins.east of the meridian established by Polaris observations.

The solar apparatus by p.m.and a.m.observations defines positions for meridian respectively about $0' 15''$ west and $0' 17''$ east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8h 50m a.m. is $N.16^{\circ} 02'W.$, the angle thus determined gives the mag. decl. $16^{\circ} 02'E.$

Note: Before beginning the regular subdivision of this township I proceed with the retracement of the old lines adjoining the work.

From the cor.of secs.19,24,25, and 30 on E.bdy.of Tp., I run

$S.89^{\circ} 52'W$.on a retracement line bet.secs.24 and 25, Descending over mountainous land;through dense sagebrush

4.60 Bottom of hollow,75 ft.below cor.,course S,Asc:abruptly.

27.40 Top of ridge,600 ft.above hollow,bears $N.15^{\circ} E.$ & $S.15^{\circ} W.$ Enter heavy timber,bears $N.15^{\circ} E.$ and $S.15^{\circ} W.$ Descend.

39.99 Fall 9 lks.S.of $\frac{1}{4}$ sec.cor.bet.secs.24 and 25, which is a gray sandstone 10 x 13 x 7 ins.above ground, well set and mkd.and witnessed as described by the surveyor general. The cor.has begun to disintegrate;therefore I destroy it and re-establish corner in same place as follows:

Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 24 in N. half, and S 25 in S.half; from which

Retracement Sub.T.31 S., R.8 W.-Continued.

Chains

- A pinon pine, 10 ins. dia., bears S.80°E., 14 lks.
dist..mkd. $\frac{1}{4}$ S 25 B T.
- A cedar, 8 ins. dia., bears N.46°W., 70 lks.
dist..mkd. $\frac{1}{4}$ S 24 B T.
- 57.90 Wash, 40 lks. wide, 3 ft. deep, in bottom of hollow, 800 ft.
below ridge, course SW;
Asc.
- 59.20 Old road, bears NE and SW.
- 73.00 Leave timber, bears N.20°E. and S.20°W.
- 77.60 Top of ridge, 300 ft. above hollow, bears NW and SE.
Desc.
- 80.04 Fall 18 lks. S.of cor.of secs.23, 24, 25, and 26 which is a
gray sandstone, 10x13x8 ins., above ground, firmly set, and
mkd. and witnessed as described by the surveyor general.
The old cor. stone is almost decayed therefore I destroy
it and re-establish the cor. in the same place as follows:
Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the
ground, for cor.of secs.23, 24, 25, and 26.mkd.on brass cap
T 31 S S 23 in NW.
R 8 W S 24 in NE.
S 25 in SE.; and
S 26 in SW.quadrants; and raise a mound of stone,
2 ft. base, 1 $\frac{1}{2}$ ft. high, W.of cor.
The course of this mile is therefore West 80.04 chs.
Land, rough and steep mountains sloping and draining south
Soil, sandy and clay loam covered and mixed with volcanic
boulders and rock; 3rd rate. Subsoil, gravel and rock.
Timber, cedar and pinon pine.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous or heavily timbered land, or land covered
with dense undergrowth, 80.04 chs.
November 17, 1910: At this cor. I set off 18°54'S., on the
decl.arc; and at 11 h 45 m a.m., l.m.t., I observe the sun
on the meridian the resulting lat. is 36°06'N., which is the

Retracement Sub.T.31 S., R.8 W.-Continued.

Chains	proper lat.nearly.
	N.89°53'W., on a retrace ment line bet.sec's.23, and 26.
	Over mountainous land; through dense sage brush.
	Desc.
12.70	Wash, 15 lks.wide, 4 ft.deep, in bottom of hollow, 150 ft. below sec.cor., course SE.
	Asc.
13.00	Enter heavy cedar and pinon pine timber, bears NW and SE.
21.00	Wash, 10 lks.wide, 2 ft.deep, course SE.
40.02	Fall 5 lks.N. of the $\frac{1}{4}$ sec.cor.bet.sec's.23 and 26, which is a conglomerate stone, 8x10x10 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general. The stone is disintegrating therefore I destroy it and re-establish the cor.in the same place as follows; Set an iron post, 3 ft.long, 1 ins.in the dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 23 in N half and S 26 in S half; from which
	A pinon pine, 6 ins.dia., bears N.87°E., 42 lks. dist..mkd. $\frac{1}{4}$ S 23 B T.
	A cedar, 10 ins.dia., bears S.47°W., 8 lks. dist..mkd. $\frac{1}{4}$ S 26 B T.
42.00	Ascend abruptly, bears N.and S.
57.30	Ledge, 50 ft.high, bears N.and S.
64.25	Top of ridge, 800 ft.above hollow, bears NE and S.
	Desc.
73.20	Bottom of swale, 150 ft.below ridge, course S.
	Asc.
75.10	Top of spur, 70 ft.above swale, bears N.and S.
	Desc.
79.96	Fall 10 lks.N. of the cor.of sec's.22, 23, 26, and 27, which is a gray sandstone, 24x12x10 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor gener

Retracement Sub T.31 S., R.8 W.-Continued.

Chains

al.

I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground, on rock, and surrounded by mound of earth and stone, for cor. of secs. 22, 23, 26, and 27, mkd. on brass cap

T 31 S S 22 in NW.

R 8 W S 23 in NE.

S 26 in SE.; and

S 27 in SW. quadrants; from which

A pinon pine, 8 ins. dia., bears N.8°E., 47 lks.

dist..mkd.T 31 S R 8 W S 23 B T.

A pinon pine, 6 ins. dia., bears S.87°E., 59 lks.

dist..mkd.T 31 S.R.8. W.S 26 B T.

A pinon pine, 6 ins. dia., bears S.52°40'W., 49 lks.

dist..mkd.T 31 S R 8 W S 27 B T.

A pinon pine, 6 ins. dia., bears N.82°W., 24 lks.

dist..mkd.T 31 S R 8 W S 22 B T.

The course of this line is therefore N.89°57'W., 79.96 chs.

Land, over rough and steep ridges and hollows, sloping and draining southward/

Soil, sandy loam mixed and covered with volcanic rock , about 2 ft. deep, clay subsoil, .

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 79.96 chs.

November 17, 1910.

November 18, 1910: At 8 h 45 m a.m., l.m.t., I set off 38°06'

Retracement Sub.T.31 S., R.8 W.-Continued.

Chains	N., on the lat.arc; 19°06'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.22,23,26, and 27.
	Thence I run
	South, on a retracement line bet.secs.26 and 27.
	Over mountainous land; through heavy cedar and pinon pine timber and dense sage brush.
	Desc.
16.00	Bottom of hollow, 160 ft.below cor., course S.10°W. Asc.abruptly over ledges.
31.00	Top of spur, 200 ft.above hollow, bears E.and W. Desc.
40.03	Intersect the $\frac{1}{4}$ sec.cor.bet.secs.26 and 27, which is a conglomerate stone, 10x10x8 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post, 3 ft.long, 1 ins.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 27 in W half and S 26 in E half;from which
	A pinon pine, 8 ins.dia., bears N.35°E. 40 lks. dist..mkd. $\frac{1}{4}$ S 26 B T.
	A pinon pine, 10 ins.dia., bears N.75°W., 65 lks. dist..mkd. $\frac{1}{4}$ S 27 B T.
41.85	Hollow, 250 ft.below ridge, course SE. Asc.
	Leave ledges, bears NW and SE.
47.30	Top of spur, 200 ft.above hollow, bears NW and SE. Desc.
70.40 71.60 80.10	Leave timber, bears NE and SW. Swale, 50 ft.below spur, course SE. Asc. Intersect the cor.of secs.26,27,34, and 35, which is a conglomerate stone, 9x10x8 ins., above ground, firmly set and mkd.and witnessed as described by the surveyor general.

Retracement Sub.T.31 S., R.8 W.-Continued.

Chains I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post, 3 ft.long, 2 in.in dia., 16 ins.in the ground, on rock, and surrounded by mound of earth and stone, for cor.of secs.26,27,34, and 35,mkd.on brass cap

'T 31 S S 27 in NW.

/R=8 W S 26 in NE.

/ S 35 in SE.;and

'S 34 in SW.quadrants;and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft.high,W.of cor.

The course of this mile is therefore South, 80.10 chs.

Land rough and mountainous slopes southward.

Soil,sandy loam about 1 ft.deep,mixed with cobble rock.

Subsoil,hard clay .

Timber,cedar and piñon pine.

Undergrowth,sage brush .

A very little grass.

Mountainous or heavily timbered land,or land covered with dense undergrowth,80.10 chs.

S.89°54'W.,on a retracement line bet.secs.27 and 34.

Over mountainous land;through dense sage brush.

20.10 Enter heavy cedar and piñon pine timber,bears NW and SE

21.80 Top of spur,90 ft.above hollow,bears N.and S.

Desc.

22.90 Wash ,20 lks.wide,3 ft.deep,course S.E.

40.01 Fall 12 lks.S.of the sec.cor.bet.secs.27 and 34.which is a cobble stone,12x12x10 ins.,above ground,firmlly set, and mkd.and witnessed as described by the surveyor general.

I destroy the old cor.and re-establish it in the same place as follows:

Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the

Retracement Sub. T.31 S., R.8 W.-Continued.

Chains	ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 27 in N half and S 34 in S half; from which A cedar, 7 ins.dia., bears N.39°ks. dist.mkd. $\frac{1}{2}$ S 27 B T. A pinon pine, 5 ins.dia., bears S., 22 lks. dist..mkd. $\frac{1}{2}$ S 34 B T.
53.70	Wash, 20 lks.wide, 4 ft.deep, course SE.
62.00	Wash, 20 lks.wide, 2 ft.deep, in bottom of swale, 30 ft.below ridge, course SE. Asc.
69.00	Top of spur, 30 ft.above hollow, bears NW and SE. Desc.
73.20	Bottom of hollow, 20 ft.below spur, course SE. Asc.abruptly over ledges.
80.05	Fall 24 lks.S.of the cor.of secs.27,28,33, and 34, which is an iron stone, 10x12x12 ins., above ground, firmly set, and mkd.and witnessed as described by the surveyor general. I destroy the old cor.and re-establish it in the same place as follows: Set an iron post, 3 ft.long, 2 ins.in dia., 16 ins.in the ground, on rock bottom, and surrounded by mound of earth and stone, for cor.of secs.27,28,33, and 34, mkd.on brass cap
	T.31 S S 28 in NW.
	R 8 W S 27 in NE.
	S 34 in SE.; and
	S 33 in SW.quadrants; from which
	A pinon pine, 8 ins.dia., bears N.66°E., 48 lks. dist..mkd.T 31 S R 8 W S 27 B T.
	A pinon pine, 14 ins.dia., bears S.10°E. 49 lks. dist..mkd.T 31 S R 8 W S 34 B T.
	A pinon pine, 7 ins.dia., bears S.47°W., 80 lks. dist..mkd.T 31 S R 8 W S 33 B T.
	A pinon pine, 8 ins.dia., bears N.58°W., 85 lks.

Retracement Sub.T.31 S., R.8 W.-Continued.

Chains	dist..mkd. T 31 S.R 8 W.S. 28 B.T. The course of this mile is therefore N.89°56'W., 80.05 chs.
	Land, mountainous, steep and rugged. slopes and drains southeasterly.
	Soil, sandy loam about 2 ft. deep mixed with coarse gravel with gravel subsoil.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.05 chs.
	November 18, 1910: At this cor. I set off 19°09'S., on the decl. arc; and at 11 h 45 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°05'N., which is the proper lat. nearly.
	South, on a retrace line bet. secs. 33 and 34.
	Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
	Desc.
4.25	Gulch, 120 ft. below cor., course S.60°W.
	Asc.
10.40	Top of spur, 100 ft. above gulch, bears N.50°W. and S.50° E.
	Desc.
22.70	Bottom of hollow, 100 ft. below spur, course S.60°E.
	Asc.
25.30	Top of spur, 60 ft. above hollow, bears N.60°W. and S.50°E
	Desc.
28.10	Bottom of hollow, 50 ft. below spur, course S.50°E.
	Asc.
39.96	Intersect the $\frac{1}{4}$ sec. cor. bet. secs. 33 and 34, which is an

Retracement Sub.T.31 S., R.8 W.-Continued.

Chains	iron stone, 10x12x12 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The stone is poorly mkd. and therefore I destroy the old cor. and re-establish it in the same place as follows.: Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec. cor., mkd. on brass cap $\frac{1}{2}$ S 33 in W half and S 34 in E half; from which
	A pinon pine, 6 ins. dia., bears N.15°E., 180 lks. dist..mkd. $\frac{1}{2}$ S 34 B T.
	A cedar, 4 ins. dia., bears S.64°W., 80 lks. dist..mkd. $\frac{1}{2}$ S 33 B T.
41.70	Top of spur, 100 ft. above hollow, bears NW and SE. Desc.
44.90	Bottom of hollow, 140 ft. below spur, course S.80°E. Asc.
47.60	Top of spur, 150 ft. above hollow, bears N.70°W. and S.70°E Desc.
54.75	Bottom of hollow, 200 ft. below spur, course SE. ✓ Asc.
58.90	Top of spur, 50 ft. above hollow, bears NW and SE. Desc. Leave timber, bears NW and SE.
79.91	Intersect the cor. of secs. 3, 4, 33, and 34, which is a lava rock, 8x10x6 ins., above ground, loosely set, and mkd. and witnessed as described by the surveyor general. The cor. is loosely set and poorly mkd. therefore I destroy it and re-establish the cor. at the same place as follows. Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for cor. of secs. 3, 4, 33, and 34, mkd. on brass cap
	↓ T 31 S S 33 in NW.
	↓ R 8 W S 34 in NE.
	↓ R 8 W S 3 in SE.; and
	↓ T 32 S S 4 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Retracement Sub.T.31 S., R.8 W.-Continued.

Chains

The course of this mile is therefore South, 79.91 chs.
 Land rough mountains with steep slopes drains southeast.
 Soil, sandy and clay loam from 1 to 2 ft. deep, mixed with
 cobble rock. Subsoil gravel.
 Timber, cedar and pinon pine.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous or heavily timbered land, or land covered
 with dense undergrowth, 79.91 chs.

November 18, 1910.

Timby Stewart
 Instrumentman G.L.O.

Subdivision of T.31 S., R.8 W.-

Survey commenced November 19, 1910, and executed with a Young and Sons light mountain transit No. 7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs;

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

Note: For test of instrument see Notes of Retracement this book.

November 19, 1910: At 8 h 45 m a.m., l.m.t., I set off $38^{\circ}06'$ N., on the lat. arc; $19^{\circ}20'$ S., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 23, 24, 25 and 26. heretofore described.

Thence I run

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
	N.0°1'W., bet. secs. 23 and 24.
	Over mountainous land; through dense sage brush.
	Asc.
9.00	Top of spur, 25 ft. above cor., bears NW and S.10°E.
	Desc.
11.00	Enter heavy cedar and pinon pine timber, bears E. and W.
20.00	Bottom of swale, 150 ft. below spur, course N.55°E.
	Asc.
26.25	Top of spur, 50 ft. above swale, bears E. and W.
	Desc.
30.00	Bottom of hollow, 50 ft. below spur, course S.80°E.
	Asc.
38.10	Top of spur, 150 ft. above hollow, bears N.85°E. and S.85°W.
	Desc.
40.00	Set an iron post, 3 ft. long, 1 in dia., 36 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 23 in W half and S 24 in E half; from which
	A cedar, 6 ins. dia., bears N.78°E., 27 lks.
	dist.. mkd. $\frac{1}{4}$ S 24 B T.
	A cedar, 6 ins. dia., bears N.54°W., 12 lks.
	dist.. mkd. $\frac{1}{4}$ S 23 B T.
41.90	Bottom of swale, 75 ft. below spur, course N.80°E.
	Asc.
71.50	Top of spur, 200 ft. above swale, bears N.60°W. and S.60°E
	Desc.
76.00	Leave timber, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 13, 14, 23, and 24., mkd. on brass cap
	T 31 S S 14 in NW.
	R 8 W S 13 in NE.
	S 24 in SE.; and
	S 23 in SW. quadrants; and raise a mound of stone,

Subdivision of T.31 S., R.8 W.-Continued.

- Chains 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 Land, rough and mountainous; slopes and drains easterly, and is covered with granite rocks.
 Soil, sandy loam about 1 ft. deep, loose and dry; clay sub-soil.
 Timber, cedar and pinon pine.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
-
- East, on a random line bet. secs. 13 and 24.
- 40.00 Set. temp. $\frac{1}{2}$ sec. cor.
 80.00 Intersect E. bdy. of Tp., at the cor. of secs. 13 and 24, heretofore described.
 Thence I run
 West, on a true line bet. secs. 13 and 24.
 Over mountainous land; through dense sage brush and scattering oak brush.
- 5.20 Bottom of hollow, 50 ft. below cor., course S.
 Asc.
- 15.40 Top of ridge, 175 ft. above hollow, bears N. and S.
 Desc.
- 20.35 Bottom of hollow, 75 ft. below ridge, course S. 10° E.
 Asc.
- 31.80 Top of rocky ridge, 200 ft. above hollow, bears N. and S.
 Desc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 13 in N half and S $2\frac{1}{2}$ in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 43.95 Bottom of swale, 95 ft. below ridge, course S. 50° E.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
	Asc.
50.30	Top of ridge, 100 ft. above hollow, bears NW and SE.
	Desc.
61.10	Bottom of hollow, 80 ft. below ridge, course S.10°W.
	Asc.
70.40	Top of spur, 65 ft. above hollow, bears N. and S.
	Desc.
75.20	Bottom of canon, 80 ft. below spur, course S.
	Leave timber, bears N. and S.
	Asc.
76.35	Old wood road, bears N. and S.
80.00	The cor. of secs. 13, 14, 23, and 24. Land, mountainous with steep rocky slopes drains southward. Soil, sandy loam from 1 ft. to 3 ft. deep, mixed with coarse gravel. Subsoil is gravel. Timber, scattering cedar and pinon pine. Undergrowth, dense sage brush and scattering oak. A very little grass. Mountainous land, or land covered with dense undergrowth, 80.00 chs. November 19, 1910: At this cor. I set off 19°23' S., on the decl. arc; and at 11 h 45 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°07' N., which is the proper lat. nearly.
	N.0°1'W., bet. secs. 13 and 14. Over mountainous land; through dense sage brush. Asc.
.40	Top of spur, 30 ft. above cor., bears E. and W.
	Desc.
5.00	Old wood road, bears N. 60°W. and S. 60°E. Bottom of hollow, 100 ft. below spur, course S.60°E.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
	Asc.
10.10	Top of spur, 40 ft. above hollow, bears E. and W.
	Desc.
12.70	Old wood road, bears NE and SW. in swale, 30 ft. deep, course SW. Enter scattering cedar and pinon pine timber, bears E. and W. Asc.
26.50	Enter heavy cedar and pinon pine timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 14 in W half and S 13 in E half; from which A cedar, 7 ins. dia., bears S.54°E., 68 lks. dist.. mkd. $\frac{1}{4}$ S 13 B T. A cedar, 10 ins. dia., bears N.82°30'W., 20 lks. dist... mkd. $\frac{1}{4}$ S 14 B T.
65.00	Top of spur, 100 ft. above hollow, bears E. and W. Desc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 11, 12, 13, and 14, mkd. on brass cap T 31 S S 11 in NW. R 8 W S 12 in NE. S 13 in SE.; and S 14 in SW. quadrants; from which A pinon pine, 16 ins. dia., bears N.38°30'E., 17 lks. dist.. mkd. T 31 S R 8 W S 12 B T. A cedar, 12 ins. dia., bears S.21°30'E., 55 lks. dist.. mkd. T 31 S R 8 W S 13 B T. A pinon pine, 10 ins. dia., bears S.63°W., 49 lks. dist.. mkd. T 31 S R 8 W S 14 B T. A pinon pine, 4 ins. dia., bears N.42°W., 21 lks. dist.. mkd. T 31 S R 8 W S 11 B T: Land, rolling mountains covered with volcanic rock, slopes and drains southerly. Soil, sandy and black loam; 2nd rate; about 2 ft. deep, mixed with gravel and gravelly subsoil.

Subdivision of T.31 S., R.8 W.-Continued.

	Chains	<p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage brush.</p> <p>Good grass for grazing.</p> <p>Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.</p>
		November 19, 1910.
		<i>Quincy Stewart</i> , Instrumentman G.L.O.
		<u>Subdivision of T.31 S., R.8 W.</u>
		<p>Survey commenced November 25, 1910, and executed with a W. and L.E. Gurley Explorer's transit, No. 957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.</p> <p>The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.</p> <p>Note: For test of instrument see notes of Retracement and Resurvey of 6th Standard Parallel South, through Range 8 West.</p> <p>At 8 h 47 m a.m., l.m.t., I set off $38^{\circ}08'N.$, on the lat.arc; $20^{\circ}58'E.$, on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 11, 12, 13, and 14.</p> <p>Thence I run</p> <p>East, on a random line bet.secs. 12 and 13.</p> <p>40.00 Set temp., $\frac{1}{2}$ sec.cor.</p> <p>80.04 Intersect E.bdy. of Tp., 12 lks.N. of the cor.of secs. 12 and 13. heretofore described.</p> <p>Thence I run</p> <p>N.$89^{\circ}55'W.$, on a true line bet.secs. 12 and 13.</p>

Subdivision of T.31 S., R.8 W.-Continued.

Chains	Over rolling mountainous land; through dense sage brush Desc.gradually.
5.80	Bottom of swale, 20 ft. below cor., course S. Asc.gradually.
15.00	Top of low ridge, 20 ft. above swale.bears N.and S. Desc.
23.00	Bottom of ravine 60 ft.deep, course SE. Asc.
40.02	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 12 in N half and S 13 in S half;dig pits, 18x18x12 ins., E.and W.of post, 3 ft.dist.;and raise a mound of earth $3\frac{1}{2}$ ft.base, 1 $\frac{1}{2}$ ft.high,N.of cor.
58.00	Old wood road, bears N.15°E.and S.15 °W.
59.70	Enter heavy cedar and pinon pine timber, bears N.and S.
80.04	The cor.of secs.11,12,13, and 14. Land, rolling hills and hollows, with gradual and smooth slopes.No rock. Soil, sandy loam rich, and soft, about 3 ft.deep, with a hard clay subsoil. Timber, cedar and pinon pine on W.20.34 chs. Undergrowth, dense sage brush on entire mile;. . A very little grass . Mountainous or heavily timbered land,or land covered with dense undergrowth, 80.04 chs.
	N.0°1'W., betsecs.11 and 12.
	Over mountainous land;through heavy cedar and pinon pine timber, and scattering sage brush. Desc.gradually.
30.00	Bottom of swale, 30 ft. below cor., course E. Asc.
40.00	Set an iron post, 3 ft.long, 1 ins.in dia., 26 ins.in the

Subdivision of T.31 S., R.8 W.-Continued.

Chains	ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 11 in W half and S 12 in E half;from which A cedar, 4 ins.dia., bears N.85°E., 28 lks. dist..mkd. $\frac{1}{4}$ S 12 B T. A cedar, 8 ins.dia., bears S.29°W., 36 lks. dist..mkd. $\frac{1}{4}$ S 11 B T.
60.00	Top of ridge, 30 ft.above hollow, bears E.and W. Desce.gradually.
74.00	Bottom of hollow, 25 ft.below ridge, course E. Asc.
80.00	Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.1,2,11, and 12,mkd.on brass cap T 31 S S 2 in NW. R 8 W S 1 in NE. S 12 in SE.;and S 11 in SW.quadrants;from which A pinon pine, 8 ins.dia., bears N.74°15'E., 30 lks. dist..mkd.T 31 S R 8 W S 1 B T. A cedar, 4 ins.dia., bears S.42°E., 38 lks. dist..mkd.T 31 S R 8 W S 12 B T. A pinon pine, 5 ins.dia., bears S.29°30'W., 75 lks.dist..mkd.T 31 S R 8 W S 11 B T. A pinon pine, 8 ins.dia., bears N.50°20'W., 52 lks.dist.. mkd.T 31 S R 8 W S 2 B T.
	Land, gently rolling mountains, slopes and drains easterly Soil, black loam about 14 ins.deep.medium texture, 2nd rate. Subsoil hard clay. Timber, cedar and pinon pine.Heavy on entire mile . Undergrowth, scattering sage brush. Good grass for grazing. Mountainous or heavily timbered land, 80.00 chs. November 25, 1910:At this cor.I set off 20°41'S., on th decl.arc;and at 11 h 47 m a.m., l.m.t., I observe the sun on the meridian the resulting lat.is 38°09'N.,which is the proper lat.nearly.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
	S.89°55'E., on a random line bet. secs. 1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.02	Intersect E.bdy.of Tp., 7 lks.S. of the cor.of secs. 1 and 12.heretofore described. Thence I run N.89°58'W., on a true line bet.secs.1 and 12. Over rolling mountainous land;through heavy cedar and pinon pine timber and dense sage brush. Desc.gradually.
17.40	Wash, 15 lks.wide, 6 ft.deep, course S.15°W. Leave timber.
34.80	Enter heavy cedar and pinon pine timber,bears N.and S.
37.00	Road,bears N.20°E.and S.20°W.
38.10	Bottom of broad hollow,30 ft.below cor.,course S. Asc.gradually.
40.01	Set an iron post,3 ft.long,1 in.in dia.,18 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 1 in N half and S 12 in S half;from which A cedar,7 ins.dia.,bears N.50°W.,94 lks. dist..mkd. $\frac{1}{4}$ S 1 B T. A cedar,6 ins.dia.,bears S.9°E.,58 lks. dist..mkd. $\frac{1}{4}$ S 12 B T.
80.02	The cor.of secs.1,2,11, and 12. Land,rolling hills and hollows;with gradual slopes and smooth. Soil,sandy loam rich and fertile about 3 ft.deep,on subsoil of clay. Timber,cedar and pinon pine. Undergrowth,sage brush. Good grass in patches. Mountainous or heavily timbered land,or land covered with dense undergrowth,80.02 chs. N.0°1'W.,on a true line bet.secs.1 and 2.

Subdivision of T.31 S., R.8 W.-Continued.

	Chains	Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
	Asc.	
2.20	Wash, 40 lks. wide, 1 ft. deep, course E.	
8.50	Begin abrupt ascent, bears N.65°E. and S.65°W.	
16.35	Wash, 60 lks. wide, 4 ft. deep, course E.	
29.00	Top of spur, 150 ft. above cor., bears E. and W.	
	Desc.	
34.50	Bottom of hollow, 50 ft. below spur, course S.65°E.	
	Asc.	
39.10	Top of spur, 80 ft. above hollow, bears E. and W.	
	Desc.	
40.00	Set an iron post, 3 ft. long, 1 in in dia., 16 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 2 in W half and S 1 in E half; from which	
	A cedar, 12 ins. dia., bears S.65°E., 34 lks.	
	dist.. mkd. $\frac{1}{4}$ S 1 B T.	
	A pinon pine, 8 ins. dia., bears S.30°W., 21 lks.	
	dist.. mkd. $\frac{1}{4}$ S 2 B T.	
41.05	Bottom of hollow, 30 ft. below ridge, course E.	
	Asc.	
46.00	Top of divide ridge between Beaver and Parowan Valleys, 100 ft. above hollow, bears N.60°E. and S.60°W.	
	Desc.	
54.85	Bottom of hollow, 100 ft. below ridge, course N.60°E.	
	Asc.	
71.70	Top of spur, 100 ft. above hollow, bears N.65°E. and S.65°W.	
	Desc.	
90.70	Intersect 6th Standard Parallel South, 16.80 chs. East of the Standard $\frac{1}{4}$ sec. cor., on S. bdy. sec. 35, heretofore described.	
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the	

Subdivision of T.31 S., R.8 W.-Continued.

Chains ground, for closing cor. of secs.1 and 2, mkd.on brass cap
 ✓ C C T 30 S R 8 W S 35 S 36 in N half;
 ✓ R 8 W S 1 in SE.; and
 ✓ T 31 S S 2 in SW.quadrants; from which
 A pinon pine, 6 ins.dia., bears S.31°E., 33 lks.
 ✓ dist..mkd.T 31 S R 8 W S 1 B T.
 A pinon pine, 6. ins.dia., bears S.4°W., 33 lks.
 ✓ dist..mkd.T 31 S R 8 W S 2 B T.
 Land, mountainous and quite rough covered with rock.
 Soil, sandy loam about 1 ft.deep, 2nd rate, subsoil hard
 clay and gravel.
 Timber, cedar and pinon pine heavy on the entire mile
 Undergrowth, sage brush(scattering)
 Good grass for grazing.
 Mountainous or heavily timbered land, 90.70 chs.

November 25, 1910.

November 19, 1910: At 8 h 45 m a.m., l.m.t., I set off 38°06'
 N., on the lat.arc; 19°20'S., on the decl.arc; and determine
 a meridian with the solar, at the cor.of secs.22, 23, 26, and
 27.

Thence I run
 N.0°1'W., betsecs.22 and 23.
 Over steep mountainous land; through heacy cedar and
 pinon pine timber and dense sage brush
 Asc.

- 27.40 Top of spur, 200 ft.above cor., bears NW.and SE.
 Desc.
- 28.25 Bottom of swale, 20 ft.below spur, course SE.
 Asc.
- 34.90 Top of spur, 150 ft.above swale, bears E.and W. Desc.
- 37.00 Hollow, course E.
- 40.00 Set an iron post, 3 ft.long, 1 in.in dia., 18 ins.in the

Subdivision of T. 31 S., R. 8 W.-Continued.

	Chains	ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.. mkd.on brass cap $\frac{1}{2}$ S 22 in W half and S 23 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor.
42.60		Top of spur, 200 ft. above hollow, bears E. and W. Desc.
49.00		Bottom of gulch, 50. ft. below spur, course E. Asc.
78.00		Top of spur, 600 ft. above gulch, bears NE and SW. Desc.
80.00		Set an iron post, 3 ft.long, 2 ins.in dia., 20 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for cor.of secs.14,15,22, and 23,mkd.on brass cap T 31 S S 15 in NW. R 8 W S 14 in NE. S 23 in SE.;and S 22 in SW.quadrants;and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. Land, rough and steep mountain ridges and hollows;covered with rock and low ledges.Slopes and drains easterly. Soil, sandy loam about 1 ft.deep, on rock subsoil. Timber, cedar and pinon pine . Undergrowth,sage brush. Mountainous or heavily timbered land, 80.00 chs.
		S.89°57'E., on a random line betsecs.14 and 23.
40.00		Set temp. $\frac{1}{2}$ sec.cor.
79.98		Intersect N.and S.line, 10 lks.S.of the cor.of secs.13,14, 23, and 24.Thence I run S.89°59'W., on a true line betsecs.14 and 23. Over mountainous land;through dense undergrowth. Asc.
.13		Ledge, 10 ft.high, bears N.and S.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
2.50	Top of spur, 60 ft. above cor., bears N.80°E. and S.40°W. Desc.
17.00	Wash, 25 lks. wide, 4 ft. deep, in hollow, 30 ft. below spur, course N.70°E. Asc. gradually.
17.50	Enter heavy cedar and pinon pine timber, bears N.70°E. and S.70°W.
39.99	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 14 in N. half and S 23 in S half; from which A pinon pine, 7 ins. dia., bears N.43°W., 42 lks. dist..mkd. $\frac{1}{4}$ S 14 B T. A pinon pine, 6 ins. dia., bears S.23°W., 60 lks. dist..mkd. $\frac{1}{4}$ S 23 B T.
49.00	Begin abrupt ascent, over series of low ledges, bears N. and S.
69.60	Top of spur, 900 ft. above hollow, bears N.30°W. and S.30° E. Leave timber, bears N.30°W. and S.30°E. Desc.
70.50	Bottom of gulch, 60 ft. deep, course S.30°E. Asc.
79.75	Top of spur, 300 ft. above gulch, bears N. and S. Desc.
79.98	The cor. of secs. 14, 15, 22, and 23. E. 49.00 chs. over rolling mountainous country; slopes and drains northeasterly. Soil sandy loam about 3 ft. deep; 2nd rate.; mixed with cobble rock, hard and dry. Subsoil clay and gravel. Timber, cedar and pinon pine. Undergrowth, sage brush. W. 30.98 chs. is over steep and rugged mountain slopes, covered with ledges and rock; east slope. Soil, sandy 3rd rate. about 1 ft. deep, subsoil, sandstone. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass. Mountainous or heavily timbered land, or land covered

Subdivision of T.31 S., R.8 W.-Continued.

	Chains	with dense undergrowth, 79.98 chs.
		November 19, 1910: At this cor. I set off 19°23'S., on the decl. arc; and at 11 h 45 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is N.38°07'N., which is the proper lat. nearly.
		N.0°1'W., bet. secs. 14 and 15.
		Over rolling mountainous land; through dense sage brush.
	Desc.	
6.00		Bottom of swale, 100 ft. below cor., course S.75°W.
	Asc.	
39.00		Top of ridge, 150 ft. above swale, bears NE and SW. This is divide ridge bet. Parowan and Beaver valleys.
	Desc.	
40.00		Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 15 in W half and S 14 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
80.00		Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 10, 11, 14, and 15, mkd. on brass cap T 31 S 8 10 in NW. R 8 W S 11 in NE. S 14 in SE.; and S 15 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
		Land high rolling mountainous country S.39.00 chs. slopes end drains southwesterly and N.41 chs. slopes and drains northerly.
		Soil, sandy and clay loam mixed with cobble rock, about 2 ft. deep, with gravelly subsoil.
		No timber.

Subdivision of T.31 S., R.8 W.-Continued.

Chains

Undergrowth, sage brush .

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

November 191910.

- O November 26, 1910: At 8 h 47 m a.m., l.m.t., I set off 38°
07' E., on the int.arc; 20°50'S., on the decl.arc; and determine
a meridian with the solar, at the cor.of secs. 10, 11,
12, and 13.
Thence I run
N.89°59'2", on a random line bet. secs. 11 and 14.
40.00 Set temp.; sec.cor.
50.02 Intersect N. and S.line, 7 l.m.s. of the cor.of secs. 11, 12,
13, and 14.
Thence I run
N.89°58'7", on a true line bet. secs. 11 and 14.
Over rolling mountainous land; through heavy cedar and
pinon pine timber and scattering sage brush.
Asc.gradually..
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{2}$ sec.cor.. mkd.on brush cap; S 11 in N half
and S 14 in S half; from which
A cedar; 5 ins.dia.; bears N.15°E., 80 lbs.
dist..mkd.; S 11 B.T.
A pinon pine, 6 ins.dia., bears S.30°E., 120 lbs.
dist..mkd.; S 14 B.T.
51.00 Begin abrupt ascent over ledges, bears N. and S.
70.00 Top of spur, 1300 ft. above sec.cor., bears NE and SW.
Desc.
70.80 Culch 50 ft. deep, courses NE.
Asc.abruptly.

Subdivision of T. 31 S., R. 8 W.-Continued.

Chains

- 74.00 Leave timber, bears NE and SW.
- 78.00 Top of divide ridge, bet. Parowan valley and Beaver valley, 200 ft. above gulch, bears N. and S.
Desc. gradually.
- 80.02 The cor. of secs. 10, 11, 14, and 15.
E. 51.00 chs. over gradual east slope of ridge, through heavy cedar and pinon pine timber and scattering sage brush. Soil, sandy loam about 2 ft. deep, mixed with cobble and lava rock. Subsoil, clay. W. 29.02 chs. over very steep and rocky east slope of high ridge, Soil, sandy loam about 1 ft. deep, subsoil rock. Cedar and pinon pine timber, undergrowth, sage oak and mahogany brush. Good grass. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.02 chs.
-
- N. 0° 1' W., bet. secs. 10 and 11.
Over rolling mountainous land; through dense sage brush.
Desc. gradually.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap. S 10 in W half and S 11 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 80.00 Point 200 ft. below sec. cor..
Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 2, 3, 10, and 11, mkd. on brass cap
T 31 S 8 3 in NW.
R 8 W S 2 in NE.
S 11 in SE.; and
S 10 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Land, gradual north slope of high mountain.
Soil, sandy loam mixed with cobble rock about 1 ft. deep.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	<p>Subsoil, gravel. No timber. Undergrowth, sage brush with scattering bunches of oak Good grass for grazing. Mountainous land, or land covered with dense undergrowth. 80.00 chs.</p> <p>November 26, 1910: At this cor. I set off 20°52'S., on the decl. arc; and at 11 h 47 m a.m., l.m.t., I observe the sun on the meridian the resulting lat. is 38°09'E., which is the proper lat. nearly.</p> <p>S.89°58'E., on a random line bet. secs. 2 and 11.</p>
40.00	Set temp. of sec.cor.
79.96	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 1, 2, 11, and 12. Thence I run N.89°56'W. on a true line bet. secs. 2 and 11. Over rolling mountainous land; through heavy cedar and pinon pine timber, and Asc. gradually.
6.70	Begin abrupt ascent over small ledges and rocks, bears N. and S.
39.98	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for 1 sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 2 in N half and S 11 in S half; from which A pinon pine, 9 ins. dia., bears N.48°W., 20 lks. dist.. mkd. 1 S 2 B T. A pinon pine, 4 ins. dia., bears S.20°E., 14 lks. dist.. mkd. 1 S 11 B T.
41.10	Top of divide ridge, between Parowan valley and Beaver valley, 900 ft. above sec.cor., bears NE and SW. Dose,

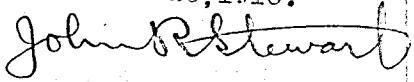
Subdivision of T.51 S., R.8 W.-Continued.

Chains.	
53.50	Bottom of hollow, 200 ft. below ridge, course N.10°W. Leave heavy and enter scattering timber, bears N.10°W. and S.10°E. Asc.
60.00	Top of rocky ridge, 75 ft. above hollow, bears N. and S. Desc.
67.50	Bottom of hollow, 90 ft. below ridge, course N. Asc.
77.50	Top of ridge, 150 ft. above hollow, bears N. and S. Leave timber, bears N. and S. Enter dense sage and buck brush, bears N. and S. Desc.
79.96	The cor. of secs. 2, 3, 10, and 11. Land, high and steep mountain ridges and hollows. Soil, sandy loam rich and fertile mixed with rock, about 2 ft. deep, clay mixed with rock for subsoil. Timber, cedar and pinon pine. Undergrowth, sage and buck brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.96 chs.
	N.0°1'W., on a true line bet. secs. 2 and 3. Over mountainous land; through dense sage and scattering oak and sage brush. Desc.
10.00	Bottom of swale, 80 ft. below cor., course E. Asc.
18.50	Top of rocky ridge, 100 ft. above swale, bears NE and SW. Enter dense mahogany brush, bears NE and SW. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the

Subdivision of T.31 S., R.8 W.-Continued.

- Chains ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 3 in W half; and S 2 in E half; from which
- A mahogany, 6 ins.dia., bears N.51°30'E., 12 lks.
dist., mkd. $\frac{1}{2}$ S 2 B T.
- A mahogany, 4 ins.dia., bears N.55°W., 42 lks.
dist..mkd. $\frac{1}{2}$ S 3 B T.
- 70.00 Top of spur, 250 ft. below ridge, bears E.and W.
Desc.abruptly.
- 72.00 Enter heavy cedar and pinon pine timber, bears E.and.W.
- ✓ 90.50 Intersect 6th Standard Parallel South, 16.82 chs.East of the Standard $\frac{1}{4}$ sec.cor., on S.side of sec.34, heretofore described.
- Set an iron post, 3 ft.long, 2 ins.in dia., 20 ins.in the ground, on rock, and surrounded by mound of earth and stone, for closing cor.of secs.2 and 3,mkd.on brass cap C C T 30 S R 8 W S 34 S 35 in N half;
R 8 W S 2 in SE.;and
T 31 S S 3 in SW.quadrants;from which
- A pinon pine, 8 ins.dia., bears S.28°30'E., 30 lks.
dist..mkd.T 31 S R 8 W S 2 B T.
- A cedar, 4 ins.dia., bears S.14°W., 40 lks.
dist..mkd.T 31 S R 8 W S 3 B T.
- Land, high and steep ridges and hollows with general northerly slope and drainage.
- Soil, red sandy loam from 6 ins.to 1 ft.deep, mixed with cobble rock, 2nd rate.Subsoil hard rocky clay.
- Timber, cedar and pinon pine on N.18.50 chs.
- Undergrowth, oak, sage, and mahogany.
- Good grass for grazing.
- Mountainous or heavily timbered land, or land covered with dense undergrowth, 90.50 chs.

November 26, 1910.



Instrumentman G.L.O.

Subdivision of T.31 S., R.8 W.-Continued.

Chains

November 23, 1910: At 8 h 46 m a.m., l.m.t., I set off $38^{\circ} 05' N.$, on the lat.arc; $20^{\circ} 14' S.$, on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 27.28, 33, and 34, heretofore described.

Thence I run

$N.0^{\circ} 2' W.$; bet.secs; 27 and 28.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Asc.

.1.50 Top of spur, 50 ft.above cor., bears E.and W.

Desc.

5.00 Head of Gulch, 90 ft.deep; course E.

Asc. over ledges.

16.00 Top of spur, 150 ft.above gulch, ~~150 xxxxxxxxx~~, bears E.and W.

Desc. over ledges.

17.00 Gulch .60 ft.deep, course $N.80^{\circ} E.$

Asc.abruptly over ledges.

19.45 Foot of impassable ledges, bears E.and W.

It is impossible to chain further on this line on account of precipitous ledges; therefore at this point I Set an iron post, 3 ft.long, 1 in.in dia., 18 ins.in the ground, on solid rock, for witness point, mkd.on brass cap W.P.R.R. on W half; and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor.

In order to determine the distance to top of ledges I place a flag on line on top of ledges and measure a base, $N.89^{\circ} 58' E.$, a distance of 40.00 chs.to point from which the flag, on top of ledges bears $N.34^{\circ} 40' W.$, and from the flag at the top of the ledges the east end of the base bears $S.34^{\circ} 40' E.$, I calculate the distance as follows:

Cotan $34^{\circ} 40'$ x base or

$1.44598 \times 40.00 = 57.84$ which added to 19.45 makes

57.84
N.34°40'W.
E.04°58'E
40
 $N.89^{\circ} 58' E$

Subdivision of T.31 S., R.8 W.-Continued.

Chains

- 77.29 Top of ledges, 1500 ft. above foot, bears NE and SW.
Continue ascent.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, mkd. on brass cap
T 31 S S 21 in NW.
R 8 W S 22 in NE.
S 27 in SE.; and
S 28 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Land exceptionally rough and ledgy.
Soil, sandy loam from nothing to 1 ft. deep.
Timber, cedar and pinon pine.
Undergrowth, sage brush.
Good grass for grazing on N. 2.70 chs.
Mountainous or heavily timbered land, 80.00 chs.
November 23, 1910: At this cor. I set off 20°16' S., on the decl. arc; and at 11 h 46 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°06' N., which is the proper lat. nearly..
- S.89°56'E., on a random line bet. secs. 22 and 27.
- 40.00 Set temp. 4 sec. cor.
- 79.98 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 22, 23, 26, and 27.
Thence I run
N.89°58'W., on a true line bet. secs. 22 and 27.
Over mountainous land; through dense sage brush and heavy timber.
Desq.
- 2.40 Bottom of ravine 10 ft. deep, course N.10°E.
Asc. abruptly over ledges.
- 39.99 Point for cor. falls in rock slide unable to perpetuate cor at this point therefore at
- 40.20 Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the

Subdivision of T.31 S., R.8 W.-Continued.

	Chains	ground, on solid rock, and surrounded by mound of earth and stone, for ^{witness} $\frac{1}{4}$ sec.cor., mkd.on brass cap WC 822 in N half and S 27 in S half; from which A pinon pine, 8 ins. dia., bears N.34°W., 37 lks. dis mkd. WC . $\frac{1}{4}$ S 22 B T. A pinon pine, 6 ins. dia., bears S.31°W., 28 lks. dist mkd. WC . $\frac{1}{4}$ S 27 B T.
47.50		Top of ridge, 600 ft. above gulch, bears N. and S. Desc. abruptly over ledges.
60.00		Bottom of ravine 200 ft. below ridge, coarse S. Asc.
77.00		Top of ledges, bears NE and SW. 600 ft. above ravine.
79.98		The cor. of secs. 21, 22, 27, and 28. Land, very rough and steep, covered with ledges large and small and rocks. Soil, sandy and clay loam from 2 ins. to 1 ft. deep, subsoil is mostly rock. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.98 chs.
		N.0°2'W., bet. secs. 21 and 22. Over mountainous land; through scattering timber and dense undergrowth. Asc.
4.00		Top of divide ridge, between Parowan valley and Beaver valley, 100 ft. above cor., bears NE and SW. Desc. Leave timber, bears NE and SW.
40.00		Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 21 in W half and S 22 in E half; dig pits, 18x18x12 ins., N. and S. of post,

Subdivision of T.31 S., R.8 W.-Continued.

Chains	3 ft. dist.; and raise a mound of earth $5\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
42.75	Center of broad swale, 400 ft. below ridge, course NE about 10.00 chs.; thence N. $10^{\circ}W$. Asc.
51.70	Top of spur, 40 ft. above swale, bears E. and W. Desc.
76.00	Bottom of hollow, 50 ft. below spur, course N. $15^{\circ}W$. Asc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, mkd. on brass cap T 31 S S 16 in NW. R 8 W S 15 in NE. S 22 in SE.; and S 21 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, rolling mountainous land, with a general and gradual north slope and drainage. Soil, black sandy loam mixed with cobble rock, about 1 ft. deep. gravel and clay subsoil. No timber. Undergrowth, sage and mahogany. Good grass for grazing. Mountainous land, or land covered with dense undergrowth 80.00 chs.
	November 23, 1910.
	November 25, 1910: At 8 h 47 m a.m., 1 m.t., I set off $38^{\circ}07'$ N., on the lat. arc; $20^{\circ}38'E$., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 15, 16, 21, and 22. Thence I run S. $89^{\circ}58'E$., on a random line bet. secs. 15 and 22. 40.00 Set temp. $\frac{1}{4}$ sec. cor. 79.96 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 14, 15,

Subdivision of T. 31 S., R. 8 W.-Continued.

Chains	22, and 23.
	Thence I run S.89°59'W., on a true line bet. secs. 15 and 22.
	Over rolling mountainous land; through dense sage brush Desc.
9.80	Bottom of swale, 50 ft. below sec. cor., course SW. Asc.
26.50	Top of divide ridge between Parowan valley and Beaver valley, 300 ft. above swale, bears N. and S. Desc.
35.00	Bottom of hollow, 120 ft. below ridge, course N. Asc.
39.98	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 15 in N half and S 22 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
55.00	Top of ridge, 300 ft. above hollow, bears N. and S. Desc.
64.00	Bottom of hollow, 100 ft. below ridge, course N. Asc.
69.60	Top of ridge, 140 ft. above hollow, bears N. 20°W. and S. 20°E Desc.
79.96	The cor. of secs. 15, 16, 21, and 22. Land, rolling mountains general slope and drainage north. Soil, rich sandy loam about 2 ft. deep, mixed with granite and lava rock. hard clay subsoil. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 79.96 chs. N. 0°2'W., bet. secs. 15 and 16.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	Over rolling mountainous land; through dense sage brush Asc. gradually.
28.60	Top of spur, 150 ft. above cor., bears N.30°W. and S.30°E. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for 1 sec. cor. mkd. on brass cap $\frac{1}{4}$ S 16 in W half and S 15 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W of cor.
55.70	Bottom of hollow, 300 ft. below spur, course N.50°E. Asc.
66.40	Top of ridge, 200 ft. above hollow, bears N.15°E. and S.15° W. Desc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 9, 10, 15, and 16, mkd. on brass cap ' T 31 S S 9 in NW. ' R 8 W S 10 in NE. ' S 15 in SE.; and ' S 16 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, high rolling mountainous country with general slope and drainage northerly. Soil, sandy loam about 1 ft. deep, mixed with gravel and volcanic rock; 2nd. rate. Subsoil, gravel and clay. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs. November 25, 1910: At this cor. I set off 80°41'S., on the decl. arc; and at 11 h 47 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°07'N., which is

Subdivision of T.31 S., R.8 W.-Continued.

	Chains	the proper lat.nearly.
		N.89°59'E., on a random line bet.secs.10 and 15.
40.00		Set temp. $\frac{1}{4}$ sec.cor.
79.96		Intersect N.and S.line, $\frac{3}{4}$ lks.N.of the cor.of secs.10,11, 14, and 15.
		Thence I run
		West, on a true line bet.secs.10 and 15.
		Over rolling mountainous land;through dense sage brush
		Desc.
24.90		Bottom of hollow 300 ft.below sec.cor., bourse N.
		Asc.
38.30		Top of ridge,100 ft.above hollow,bears N.and S.
		Desc.
39.98		Set an iron post,3 ft.long,1 in.in dia.,16 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 10 in N half and S 15 in S half;and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.High,N.of cor.
48.00		Bottom of hollow,90 ft.below ridge, course N.15°E.
		Asc.
78.00		Top of ridge,200 ft.above hollow,bears N.15°E.and S.15 W.
		Desc.
79.96		The cor.of secs.9,10,15, and 16.
		Land,rolling ridges and hollows .
		Soil,sandy loam about 1 ft.deep,mixed with volcanic rock;subsoil,gravel and clay.
		No timber.
		Undergrowth,sage brush.
		Mountainous land,or land covered with dense undergrowth.
79.96 chs.		
		November 25, 1910.

Subdivision of T.31 S., R.8 W.-Continued.

Chains

November 26, 1910: At 8 h 47 m a.m., l.m.t., I set off $38^{\circ}08'$ N. on the lat.arc; $20^{\circ}50'$ S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 9, 10, 15, and 16.

Thence I run

$N.0^{\circ}2'W.$, bet.secs. 9 and 10.

Over rolling mountainous land; through dense sage brush Desc.gradually.

18.00 Desc.abruptly, bears NE and SW.

30.00 Foot of steep descent, bears NE and SW.

Desc.gradually.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 16 ins.in the ground, on solid rock, and surrounded by mound of earth for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 9' in W half and S 10' in E half; dig pits, 18x18x12 ins., N.and S.of post, 3' ft dist.. and raise a mound of earth, $5\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.

80.00 Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs. 3, 4, 9, and 10, mkd.on brass cap

T 31 S S 4 in NW.

R 8 W S 3 in NE.

S 10 in SE.; and

S 9 in SW.quadrants; dig pits, 18x18x12 ins.in each sec. $5\frac{1}{2}$ ft.dist.; and raise a mound of earth 4 ft. base, $2\frac{1}{2}$ ft.high, W.of cor.

Land, rolling mountains with a general north slope and drainage.

Soil, sandy loam rich and productive about 3 ft.deep mixed in patches with boulders and cobble rock . subsoil, gravel.

No timber.

Undergrowth, sage brush.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	East, on a random line bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect N. and S. line, 12 lks. N. of the cor. of secs. 2, 3, 10, and 11. Thence I run N. 89° 55' W., on a true line bet. secs. 3 and 10. Over rolling mountainous land; through dense sage brush Desc.
5.30	Bottom of swale, 30 ft. below cor., course N. 10° E. Asc.
10.20	Top of ridge, 100 ft. above hollow, bears N. 20° E. and S. 20° E. Desc.
38.00	Bottom of canon, 200 ft. below ridge, course N. 15° E. asc.
39.97	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 3 in N half and S 10 in S half; dig pits, 18x18x12 ins., E and W of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Asc.
56.70	Top of ridge, 200 ft. above canon, bears N. 30° W. and S. 30° E Desc.
73.60	Bottom of hollow, 300 ft. below ridge, course N. 30° W. Asc.
75.60	Top of spur, 30 ft. above hollow, bears N. 20° W. and S. 20° E. Desc.
79.94	The cor. of secs. 3, 4, 9, and 10.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	Land, rolling ridges and hollow, slopes and drains north Soil, rich sandy loam mixed and covered with volcanic rock Medium texture .Gravelly subsoil. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 79.94 chs. November 26, 1910: At the noon hour the sky is overcast and solar observations are impossible.
	N.0°2' W., on a true line bet. secs. 3 and 4. Over mountainous land; through dense sage brush. Desc. gradually.
15.00	Bottom of swale, 80 ft. below cor., course N.40°W. Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{2}$ S 4 in W half and S 3 in E half; dig pits, 18x18x12 ins., N. and S. of post 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft high, W. of cor.
51.00	Enter heavy cedar and pinon pine, timber, bears E. and W.
53.40	Top of spur, 70 ft. above hollow, bears E. and W. Desc.
63.90	Enter bottom of hollow, bears N. and S. 15°W. course N.
65.50	Leave hollow, bears N. 10°W. and S. course N. 10°W. Asc.
74.70	Top. of spur, 200 ft. above hollow, bears E. and W. Desc.
90.28	Intersect 6th Standard Parallel south, 16.89 chs. East of the standard $\frac{1}{4}$ sec.cor.on S. side of sec. 33 , heretofore described.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 3 and 4, mkd. on brass cap C C T 30 S R 8 W S 33 S 34 in N half. R 8 W S 3 in SE.; and T 31 S S 4 in SW. quadrants; from which A cedar, 10 ins. dia., bears S.45°E., 68 lks. dist.. mkd. T 31 S R 8 W S 3 B.T. A pinon pine, 12 ins. dia., bears S.34°W., 36 lks. dist.. mkd. T 31 S R 8 W S 4 B.T. Land, rolling mountainous with general north slope and drainage. Soil, sandy loam mixed with gravel about 2 ft. deep, covered with granite rock. Subsoil, gravel. Timber, cedar and pinon pine on N.39.28 chs. Undergrowth, sage brush on entire mile. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 90.28 chs.
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November 26, 1910.

November 28, 1910: At 8 h 46 m a.m., I. m. t. kI set off 38°04' N., on the lat. arc; 21°12'S., on the decl. arc; and determine a meridian with the solar, at the cor. of secs., 4, 5, 32, and 33, on S. bdy. of Tp., heretofore described.

Thence I run

N.0°3'W., bet. secs. 32 and 33.

Over rough mountainous land; through heavy cedar and pinon pine timber, and scattering sage brush.

Desc.

10.00 Bottom of gully, 75 ft. below cor., course S.56°E.

Asc.

18.40 Top of ridge, 100 ft. above hollow, bears NW and SW.

Desc.

Subdivision of T.31 S.; R.8 W.-Continued.

Chains

- 24.70 Bottom of hollow, 50 ft. below ridge, course SE.
Asc. gradually.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, ~~on~~ on solid rock, and surrounded by mound of earth and stone, for cor. of sec. 28, 29, 32, and 33, mkd. on brass cap $\frac{1}{4}$ S 32 in W half and S 33 in E half; from which
A pinon pine, 12 ins. dia., bears S.30°E., 29 lks.
dist..mkd. $\frac{1}{4}$ S 33 B T.
A pinon pine, 8 ins. dia., bears S.46°W., 22 lks.
dist..mkd. $\frac{1}{4}$ S 32 B T.
- 46.40 Top of spur, 100 ft. above hollow, bears NE and SW.
Desc.
- 49.70 Bottom of hollow, 60 ft. below spur, course S.20°W.
Asc.
- 64.60 Wash, 20 lks. wide, 3 ft. deep, in bottom of same hollow,
25 ft. above last hollow, course S.50°E.
Asc.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground, ~~on~~ on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 28, 29, 32, and 33, mkd. on brass cap
 \checkmark T 31 S S 29 in NW.
 \checkmark R 8 W S 28 in NE.
 \checkmark S 33 in SE.; and
 \checkmark S 32 in SW. quadrants; from which
A pinon pine, 5 ins. dia., bears N.68°E., 18 lks.
dist..mkd.T 31 S R 8 W S 28 B T.
A pinon pine, 7 ins. dia., bears S.56°E., 47 lks.
dist..mkd.T 31 S R 8 W S 33 B T.
A pinon pine, 7 ins. dia., bears S.31°W., 30 lks.
dist..mkd.T 31 S R 8 W S 32 B T.
A pinon pine, 9 ins. dia., bears N.81°W., 29 lks.
dist..mkd.T 31 S R 8 W S 29 B T.
- Land mountainous..
Soil, sandy and clay loam; 2nd rate, gravel subsoil.

Subdivision of T.31 S., R.8 W.-Continued.

	Chains	<p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage and oak brush.</p> <p>Good grass for grazing.</p> <p>Mountainous or heavily timbered land, 80.00 chs.</p>
		<p>East, on a random line bet. secs. 28 and 33.</p>
40.00		<p>Set temp. $\frac{1}{4}$ sec.cor.</p>
80.00		<p>Intersect N. and S. line, 12 lks. N. of the cor. of secs. 27, 28, 33, and 34.</p>
		<p>Thence I run</p>
		<p>N. 89° 55' W., on a true line bet. secs. 28 and 33.</p>
		<p>Over mountainous land; through heavy cedar and pinon pine timber, and scattering sage brush.</p>
		<p>Asc. abruptly.</p>
17.11		<p>Foot of series of ledges, bears N. and S.</p>
		<p>Note: As this is the nearest safe point that a cor. can be perpetuated I</p>
		<p>Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground; for witness point, mkd. on brass cap $\frac{1}{4}$ B in N half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.</p>
		<p>Asc. abruptly over ledges.</p>
34.00		<p>Top of sharp rocky ridge, 850 ft. above foot of ledges, bears N. and S.</p>
		<p>Desc. abruptly over precipitous ledges.</p>
40.00		<p>Point for $\frac{1}{4}$ sec.cor. falls in ledges where it is impossible to perpetuate cor. I therefore Mark a cross (+) at the exact cor. point.</p>
55.40		<p>Bottom of canon, 600 ft. below ridge, course S. 30° W.</p>
		<p>Asc. over ledges.</p>
65.00		<p>Leave ledges, bears N. and S.</p>
80.00		<p>The cor. of secs. 28, 29, 32, and 33.</p> <p>Land, exceptionally rough.</p>

Subdivision of T.31 S., R.8 W.-Continued.

Chains

Soil, sandy loam from 2 ins. to 6 ins. deep, on solid rock and nearly all the way there is no soil at all.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

November 28, 1910: At this cor. I set off 21°15' S., on the decl. arc; and at 11 h 48 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°05' N., which is the proper lat. nearly.

N.0°3'W., bet. secs. 28 and 29.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Asc.

1.90 Top of spur, 50 ft. above sec. cor., bears NE and SW.

Desc.

4.00 Bottom of hollow, 75 ft. below spur, course S.20°W.

Asc. abruptly.

9.15 Top of ledge, 20 ft. high, on spur, 100 ft. above hollow, bears E. and W.

Desc. gradually.

10.00 Leave timber and enter dense sage brush, bears E. and W.

21.50 Bottom of hollow, 25 ft. below spur, course S.10°E.

Asc. abruptly.

34.05 Foot of ledges, bears E. and W.

As the point for $\frac{1}{4}$ sec. cor. will fall on ledges where a corner cannot be perpetuated at this point I

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., mkd. on brass cap T 31 S R 8 W in N half; W C $\frac{1}{4}$ S 29 in W half; and S 28 in E half; and raise a mound of earth and stone, 2 ft. base, 1- $\frac{1}{2}$ f t. high, W. of cor.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
40.00	Falls on ledges, cor. not set.
53.00	Top of divide ridge, between Parowan valley and Beaver valley, bears E. and W., 1200 ft. above hollow, Leave ledges, bears E. and W. Desc. gradually.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, mkd. on brass cap T 31 S S 20 in NW. R 8 W S 21 in NE. S 28 in SE.; and S 29 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. S. 53.00 chs. over very steep and rough south slope of high ridge covered with ledges and rock. Soil, loam very shallow and mixed with rock. Subsoil rock. Timber, cedar and pinon pine. Undergrowth, sage brush and mahogany. N. 27.00 chs. over north slope of high ridge gradual descent. Soil rich sandy loam about 2 ft. deep, mixed with volcanic rock and sandstone, subsoil gravel. No timber. Undergrowth, sage brush. Good grass. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	November 28, 1910.
	December 1, 1910. At 8 h 49 m a.m., 11m.t., I set off 38°06' N., on the lat.arc; 21°43'S., on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 20, 21, 28, and 29. Thence I run S. 89°55'E., on a random line bet. secs. 21 and 28. Set temp. $\frac{1}{4}$ sec. cor. Intersect N. and S. line, 3 lks. N. of the cor. of secs. 21, 22, 27, and 28.
40.00	
80.02	

Subdivision of T.31 S., R.8 W.-Continued.

Chains	N. 89°52'W., on a true line bet. secs. 21 and 28. Over mountainous land; through scattering cedar and pinon pine timber and dense sage brush.
	Asc.
5.00	Top of divide ridge, bet. Parowan valley and Beaver Valley 25 ft. above cor., bears NE and SW.
	Desc.
12.50	Bottom of hollow, 150 ft. below ridge, course N. 20°E.
	Asc.
26.00	Top of ridge, 200 ft. above hollow, bears N. and S.
	Desc.
40.01	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for 1 sec. cor. mkd. on brass cap 1/4 S 21 in N. half; and S 28 in S half; and raise a mound of stone, 2 ft base, 1 1/2 ft. high, N. of cor.
57.75	Bottom of hollow, 400 ft. below ridge, course N. 10°W.
	Asc.
69.50	Top of ridge, 250 ft. above hollow, bears N. 20°W. and S. 20° E.
	Desc.
75.70	Bottom of hollow, 70 ft. below ridge, course N.W.
	Asc.
80.02	The cor. of secs. 20, 21, 28, and 29, 40 ft. above hollow. Land high rolling mountains; slopes and drains north. Soil, loose sandy loam about 18 ins. deep, and mixed with considerable volcanic rock. Subsoil, gravel and clay. Timber, scattering cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.02 chs.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	N.0°3'W., bot.secs.20 and 21.
	Over mountainous land; through dense sage brush.
	Desc.
11.00	Bottom of hollow, 60 ft. below cor., course NW.
	Asc.
22.00	Top of ridge, 180 ft. above hollow, bears NW and SE.
	Desc. along east slope near top of ridge.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.. mkd.on brass cap $\frac{1}{2}$ S 20 in W half and S 21 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
50.00	Top of same ridge, nears N. and S. 10°W.
	Thence along top of ridge descending.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 16, 17, 20, and 21; mkd.on brass cap T 31 S S 17 in NW. R 8 W S 16 in NE. S 21 in SE.; and S 20 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, high rolling mountains covered with small cobble rock.
	Soil, loose sandy loam about 1 ft. deep and mixed with cobble rock. Subsoil, gravel.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth.
80.00 chs.	
	December 1, 1910: At this cor. I set off 21°45'S., on the decl. arc; and at 11 h. 49 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°08'N., which is the proper lat. nearly.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
	S.89°52'E., on a random line bet. secs. 16 and 21.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
80.04	Intersect N. and S. line, 12 lks. S. of the cor. of secs. 15, 16, 21, and 22.
	Thence I run
	N.89°57'W., on a true line bet. secs. 16 and 21.
	Over mountainous land; through sage brush.
	Desc.
.30	Bottom of hollow, 10 ft. below cor., course N.10°W.
	Asc.
21.30	Top of ridge, 400 ft. above hollow, bears NW and SE.
	Desc.
34.70	Bottom of hollow, 400 ft. below ridge, course S.60°W.
	Asc.
40.02	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on rock, and surrounded by mound of stone, for $\frac{1}{2}$ sec. cor. mld. on brass cap $\frac{1}{2}$ S 16 in N half and S 21 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
47.40	Top of spur, 150 ft. above hollow, bears NW and SE.
	Desc.
62.30	Bottom of hollow, 240 ft. below spur, course N.
	Asc.
80.04	The cor. of secs. 16, 17, 20, and 21.
	Land, high rolling mountains sloping and draining northerly.
	Soil, rich sandy loam about 18 ins. deep, mixed with cobble rock.
	Subsoil, gravel.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense sage brush,

Subdivision of T.31-S., R.8 W.-Continued.

Chains	80.04 chs.	December 1, 1910.
		December 2, 1910: At 8 h 49 m a.m., l.m.t., I set off 38°08' N., on the lat.arc; 21°52'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.16,17,20, and Thence I run N.0°3'W., betsecs.16 and 17.
		Over mountainous land; through dense sage brush.
		Desc.along top of ridge,
5.00	Leave ridge top.bears N.10°W.and South.	
	Desc.abruptly.	
40.00	Set an iron post, 3 ft.long 1 in.in dia., 16 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 17 in W half and S 16 in E half; and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.	
52.10	Bottom of hollow, 400 ft.below ridge, course NW.	
	Asc.	
55.00	Top of spur, 90 ft.above hollow, bears E.and W.	
	Desc.	
80.00	Set an iron post, 3 ft.long, 2 ins.in dia., 18 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for cor.of secs.8,9,16, and 17,mkd.on brass cap	
	T 31 S S 8 in NW.	
	R 8 W S 9 in NE.	
	S 16 in SE.;and	
	S 17 in SW.quadrants; and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.	
	Land, high rolling mountains slopes and drains northerly. Soil, sandy loam about 1 ft.deep, and mixed with lava rock 2nd rate.	

Subdivision of T.31 S., R.8 W.-Continued.

Chains	No timber . Undergrowth,sage brush. Mountainous land,or land covered with dense undergrowth, 80.00 chs.
	S.89°57'E.,on a random line betsecs.9 and 16.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.00	Intersect N.and S.line,at the cor.of secs.9,10,15, and 16. Thence I run N.89°57'W.,on a true line betsecs.9 and 16. Other mountainous land;through dense sage brush. Desc.
8.90	Bottom of hollow,50 ft.below cor,course N.15°E. Asc.
19.00	Top of ridge,150 ft.above hollow,bears N.16°E.and S.16° W. Desc.
32.90	Bottom of hollow,200 ft.below ridge,course N. Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,16 ins.in the ground,on solid rock, and surrounded by mound of earth and stone,for $\frac{1}{4}$ sec.cor.mkd.on brass cap $\frac{1}{4}$ S 9 in N Half and S 16 in S half;and raise a mound of stone, $\frac{2}{3}$ ft.base, $1\frac{1}{2}$ ft.high,N.of cor.
42.60	Top of ridge,350 ft.above hollow,bears N.and S. Desc.
55.00	Bottom of hollow,300 ft.below ridge,course NW. Asc.
58.50	Top of spur,100 ft.above hollow,bears N.and S. Desc.
63.00	Bottom of swale,100 ft.below spur,course N.15°E. Asc.

Subdivision of T.31 S., E. 8 W.-Continued.

Chains

70.00 Top of ridge, 150 ft. above swale, bears N.10°W. and S.10°E.
 Descr.
 80.00 The cor. of secs. 8, 9, 16, and 17.
 Land, high rolling mountains sloping and draining northerly.
 Soil, rich, sandy loam about 14 ins. deep, mixed with rock.
 Subsoil, gravel.
 No timber.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous land, or land covered with dense undergrowth,
 80.00 chs.
 December 2, 1910. At this cor. I set off 21°54' S., on the decl.
 arc; and at 11 h 49 m a.m., l.m.t., I observe the sun on the
 the meridian the resulting lat. is 38°08' N., which is the
 proper lat. nearly.

N.0°3'N., bet. secs. 8 and 9.

Over mountainous land; through dense sage brush.

Descr.

29.50 Road, bears N.15°E. and S.15°W.
 30.00 Bottom of hollow, 300 ft. below cor., course N.15°E.
 Acc.
 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the
 ground, on solid rock, and surrounded by mound of earth and
 stone, for $\frac{1}{2}$ sec. cor., mkd. on brass cap 2' S 8 in W half
 and S 9 in E half; and raise a mound of stone, 2 ft. high,
 1 $\frac{1}{2}$ ft. high, W. of cor.
 60.00 Top of ridge, 350 ft. above hollow, bears N.25°E. and S.15°
 N.
 Descr.
 60.00 Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the
 ground, on solid rock, and surrounded by mound of earth and
 stone, for cor. of secs. 4, 5, 8, and 9, mkd. on brass cap

Subdivision of T.31 S., R.8 W.-Continued.

Chains

T 31 S S 5 in NW.

✓ R 8 W S 4 in NE.

✓ S 9 in SE.; and

✓ S 8 in SW. quadrants; and raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous, sloping north.

Soil, rich sandy loam about 14 ins. deep; and mixed with coarse
gravel and rock.

Subsoil, gravel and rock/

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

December 2, 1910.

December 3, 1910: At 8 h 50 m a.m., l.m.t., I set off $38^{\circ}09'$
N., on the lat.arc; $22^{\circ}01'$ S., on the decl.arc; and determine
a meridian with the solar, at the cor.of secs. 4, 5, 8, and
9.

Thence I run

S. $09^{\circ}57'$ E., on a random line bet.secs. 4 and 9.40.00 Set temp. $\frac{1}{4}$ sec.cor.79.96 Intersect N. and S.line, 2 lks.S. of the cor.of secs. 3, 4,
9, and 10.

Thence I run

N. $89^{\circ}56'$ W., on a true line bet.secs. 4 and 9.

Over mountainous land; through dense sage brush.

Desc.

3.80 Bottom of hollow, 50 ft. below cor., course N.

Asc.

16.00 Top of ridge, 400 ft. above hollow, bears N. and S.

Desc.

Subdivision of T.31 S., R.8 W.-Continued.

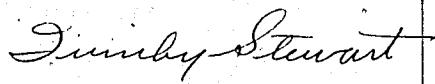
	Chains	
27.00		Bottom of hollow, 250 ft. below ridge, course N.
	Asd.	
34.00		Top of ridge, 200 ft above hollow, bears N. and S.
	Desc.	
39.98		Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for 1 sec. cor., mkd. on brass cap 1/2 S 4 in N half and S 9 in S half; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
49.60		Road, bears N. 15° E. and S. 15° W.
50.10		Bottom of hollow, 250 ft. below ridge, course N. 15° E.
	Asc.	
70.00		Top of ridge, 350 ft. above hollow, bears N. 25° E. and S. 25° W.
	Desc.	
79.96		The cor. of secs. 4, 5, 8, and 9, Land, high rolling mountains, sloping and draining north Soil, rich sandy loam about 18 ins. deep, and mixed with considerable rock and gravel. Subsoil, gravel and rock. No timber.
		Undergrowth, sage brush.
		Good grass for grazing.
		Mountainous land, or land covered with dense undergrowth
79.96 chs.		
		December 3, 1910: At this cor. I set off 22°03' S., on the decl. arc; and at 11 h 50 m a.m., l.m.t., I observe the sun on the meridian the resulting lat. is 38°09' N., which is the proper lat. nearly.
		N. 0°3' W., on a true line bet. secs. 4 and 5.
		Over mountainous land; through dense sage brush.
	Desc.	
7.90		Bottom of hollow, 100 ft. below cor., course NE.
	Asc.	

Subdivision of T.31 S., R.8 W.-Continued.

Chains

- 29.40 Top of spur, 120 ft. above hollow, bears NE and SW.
 Desc.
 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on hard gravel, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 5 in W half and S 4 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 58.00 Enter heavy cedar and pinon pine timber, bears E. and W.
 70.50 Bottom of canon, 300 ft. below spur, course N.20°E.
 Desc.
 88.40 Same canon, 50 ft. below last crossing, course N.20°W.
 Asc.
 90.06 Intersect 6th Standard Parallel South, 16.94 chs. East of the standard $\frac{1}{4}$ sec.cor., on S. side of sec.32, heretofore described.
 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 4 and 5, mkd. on brass cap
 \checkmark C C T 30 S R 8 W S 32 S 33 in N half.
 \checkmark R 8 W S 4 in SE.; and
 \checkmark T 31 S S 5 in SW. quadrants; from which
 A pinon pine, 9 ins. dia., bears S.61°E., 39 lks.
 dist.. mkd. T 31 S R 8 W S 4 B T.
 A cedar, 10 ins. dia., bears S.12°W., 83 lks.
 dist.. mkd. T 31 S R 8 W S 5 B T.
 Land, mountainous.
 Soil, sandy loam about 1 ft. deep, mixed with gravel. Subsoil hard clay and gravel.
 Timber, cedar and pinon pine, on N.32.06 chs.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous or heavily timbered land, or land covered with dense undergrowth, 90.06 chs.

December 3, 1910.


 Instrumentman G.L.O.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
	November 29, 1910: At 8 h 48 m a.m., l.m.t., I set off 38°04' N., on the lat.arc; 21°23'S., on the decl.arc; and determine a meridian with the solat, at the cor. of secs. 5, 6, 31, and 32, on S.bdy. of Tp., heretofore described.
	Thence I run N.0°3'W., bet. secs. 31 and 32:
	Over rough mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
	Desc.
5.00	Bottom of hollow, 40 ft. below cor., course S.65°E.
	Asc.
13.80	Top of spur, 40 ft. above hollow, bears N.80°W. and S.70°E.
	Desc.
21.75	Bottom of swale, 200 ft. below spur, course S.65°E.
	Asc.
25.00	Top of spur, 70 ft. above swale, bears N.70°W. and S.70°E
	Desc.
39.25	Bottom of hollow, 150 ft. below spur, course S.25°E..
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on hard gravel, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 31 in W half and S 32 in E half; from which
	A cedar, 6 ins. dia., bears S.70°E., 26 lks.
	dist.. mkd. $\frac{1}{4}$ S 32 B T.
	A pinon pine, 8 ins. dia., bears N.50°W., 20 lks.
	dist.. mkd. $\frac{1}{4}$ S 31 B T.
74.00	Top of ridge, 450 ft. above hollow, bears NW. and SE.
	Desc.
77.90	Bottom of hollow, 90 ft. below ridge, course SE.
	Asc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, for cor.of secs. 29, 30, 31, and 32, mkd. on brass cap

Subdivision of T.31 S., R.8 W.-Continued.

- Chains ✓ T 31 S S 30 in NW.
 ✓ R 8 W S 29 in NE.
 ✓ S 32 in SE.; and
 ✓ S 31 in SW.quadrants; from which
 A pinon pine, 14 ins.dia., bears N.65°E., 63 lks.
 dist..mkd.T 31 S R 8 W S 29 B T.
 A cedar, 7 ins.dia., bears S.80°E., 67 lks.
 dist..mkd.T 31 S R 8 W S 32B T.
 A pinon pine, 8 ins.dia., bears S.45°W., 61 lks.
 dist..mkd.T 31 S R 8 W S 31 B T.
 A cedar, 7 ins.dia., bears N.32°W., 108 lks.
 dist..mkd.T 31 S R 8 W S 30 B T.
 Land, rough and steep ridges and hollows, slopes and drains easterly.
 Soil, hard clay, poor and dry about 2 ft.deep, and mixed with some rock. Hard clay subsoil.
 Timber, cedar and pinon pine.
 Undergrowth, oak and sage brush.
 Good grass for grazing.
 Mountainous or heavily timbered land, 80.00 chs.
-
- East, on a random line bet.secs.29 and 32.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 ✓ 79.98 Intersect N.and S.line, 2 lks.S.of the cor.of secs.
 28.29, 32, and 33.
 Thence I run
 S.89°59'W., on a true line bet.secs.29 and 32.
 Over mountainous land; through heavy cedar and pinon pine timber and scattering undergrowth.
 Desc.
 1.50 Bottom of hollow, 25 ft.below cor., course S..
 Asc.
 6.30 Top of spur, 100 ft.above hollow, bears N.50°W. and S.30°E
 Desc.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
13.40	Bottom of hollow, 120 ft. below spur, course SE. Asc.
17.10	Top of ridge, 120 ft. above hollow, bears N.30°W. and S.30°E. Desc.
24.60	Bottom of hollow, 100 ft. below ridge, course S.50°E. Asc.
28.50	Top of ridge, 100 ft. above hollow, bears NW and SE. Desc.
37.80	Bottom of hollow, 140 ft. below ridge, course SW. Asc.
39.99	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on hard gravel, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 29 in N half; and S 32 in S half; from which A pinon pine, 5 ins. dia., bears N.49°E., 19 lks. dist.. mkd. $\frac{1}{4}$ S 29 B T. A pinon pine, 14 ins. dia., bears S.29°E., 9 lks. dist.. mkd. $\frac{1}{4}$ S 32 B T.
42.80	Top of spur, 70 ft. above hollow, bears NW and SE. Desc.
45.15	Bottom of hollow, 75 ft. below spur, course SE. There is a small spring in the bottom of this hollow on line. Asc.
51.60	Top of ridge, 200 ft. above hollow, bears NW and SE. Desc.
59.80	Bottom of hollow, 150 ft. below ridge, course S.15°E.
77.00	Spur, 100 ft. above hollow, brs. N.W. and S.E. desc.
79.98	The cor. of secs. 29, 30, 31, and 32. Land, very broken and rough ridges and hollows. Soil, sandy loam about 1 ft. deep, and well mixed with volcanic rock; 3rd rate. Subsoil, clay and rock. Timber, cedar and pinon pine.

Subdivision of T.31 S., R.8 W.-Continued.

Chains

Undergrowth, scattering sage and oak brush.

Light growth of grass.

Mountainous or heavily timbered land, 79.98 chs.

November 29, 1910: At this cor. I set off 21°25'S., on the decl. arc; and at 11 h 48 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°05'N., which is the proper lat. nearly.

West, on a random line bet. secs. 30 and 31.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

81.70 Intersect W.bdy.of Tp., 2 lks.N. of the cor. of secs. 25, 30, 31, and 36, heretofore described.

Thence I run

N.89°59'E., on a true line bet. secs. 30 and 31.

Over mountainous land; through scattering timber and dense undergrowth.

Desc.

7.00 Bottom of hollow, 30 ft. below cor., course S.10°W.

Old. road, in bottom, bears N.10°E. and S.10°W.

Asc.

11.500 Top of rocky ridge, 80 ft. above hollow, bears N. and S. Desc.

41.20 Hollow, 90 ft. below ridge, course SW. Asc.

41.70 Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on hard gravel, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{2}$ S 30 in N half and S 31 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

60.00 Top of ridge, 80 ft. above hollow, bears N.10°W. and S.10°E.

Desc.

62.50 Bottom of hollow, 40 ft. below ridge, course N.

Asc.

80.00 Top of ridge, 30 ft. above hollow, bears N.30°E. and S.30°

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
	W.
	Desc.
81.70	The cor.of secs.29,30,31, and 32. Land,rolling mountainous slopes and drains southwesterly. Soil,rich sandy loam;2nd rate. Timber,very scattering cedar and pinon pine. Undergrowth,oak and sage brush. Good grass for grazing. Mountainous land,or land covered with dense undergrowth, 81.70 chs.
	November 29,1910.
	November 30,1910:At .8 h 4 ⁴⁹ ' m a.m.,l.m.t.,I set off 38°05'N.,on the lat.arc;21°33'S. on the decl.arc;and determine a meridian with the solar,at the cor.of secs. 29.30,31, and 32.. Thence I run N.0°3'W.,betsecs.29 and 30. Over mountainous land;through heavy cedar and pinon pine timber and scattering undergrowth. Asc.
1.90	Top of ridge,60 ft.above cor.,bears NE and SW. Desc.
20.15	Bottom of hollow,150 ft.below ridge,course SW. Asc.
27.75	Top of spur,120 ft.above hollow,bears NE and SW. Desc.
28.00	Leave timber,bears E.and W.
40.00	Set.an iron post,3 ft.ling,1 in.in dia.,26 ins.in th ground,for $\frac{1}{4}$ sec.cor..md.on brass cap $\frac{1}{4}$ S.30 in W half and S 29 in E half;and dig pits,18x18x12 ins.N.and S.of post,3 ft.dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft.high,W.of cor.

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Subdivision of T.31 S., R.8 W. - Continued.

Chains	
49.40	Bottom of hollow, 120 ft. below ridge, course S.37°W. Asc.
63.00	Top of spur, 50 ft. above hollow, bears E. and E. A butte 600 ft. high, bears West about 3.00 chs. Desc.
68.50	Bottom of hollow, 40 ft. below spur, course S.80°E. Asc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 19, 20, 29, and 30, mkd. on brass cap T 31 S S 19 in NW. R 8 W S 20 in NE. S 29 in SE.; and S 30 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, steep and rough slopes and drains southwesterly. Soil, sandy loam about 1 ft. deep, and mixed with some gravel and lava rock. Subsoil, hard clay. Timber, cedar and pinon pine on S. 28.00 chs. Undergrowth, sage and oak brush on entire mile. A very little grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
40.00	N.89°59'E., on a random line bet. secs. 20 and 29. Set temp. 1 sec. cor.
79.96	Intersect N. and S. line, 2 lks. N. of the cor. of secs . 20, 21, 28, and 29. Thence I run S.89°58'W., on a true line bet. secs. 20 and 29. Over mountainous land; through dense sage brush. Desc.
5.00	Top of spur, 50 ft. above cor., bears N. and S. Desc.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
7.00	Bottom of hollow, 120 ft. below spur, course II.
	Asc.
27.40	Top of divide ridge between Parowan valley and Beaver valley, 300 ft. above hollow, bears NW and SE.
	Desc.
39.00	Bottom of hollow, 300 ft. below ridge, course SW.
	Asc.
39.98	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor., mkd. on brass cap $\frac{1}{4}$ S 20 in N half and S 29 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
44.10	Top of spur, 150 ft. above hollow, bears N. and S.
	Desc.
74.75	Bottom of hollow, 400 ft. below spur, course S.10°W.
	Asc.
79.96	The cor. of secs. 19, 20, 29, and 30. Landrolling mountains. Soil, sandy loam, about 2 ft. deep, subsoil, clay. No timber. Undergrowth, sage brush and scattering oakk. Light growth of grass. Mountainous land, or land covered with dense undergrowth, 79.96 chs.
	November 30, 1910: At this cor. I set off 21°35'S., on the decl.arc; and at 11 h 49 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°06'N., which is the proper lat. nearly.
	S.89°59'W., on a fadom line bet. secs. 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
81.55	Intersect W. bdy. of Tp., 2 lks. S. of the cor. of secs. 19, 24, 25, and 30, heretofore described.
	Thence I run

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
	East on a true line bet. secs. 19 and 30.
	Over rolling mountainous land; through dense sage brush.
	Asc.
12.55	Top of ridge, 60 ft. above cor., bears N. and S. This top of divide between Parowan valley and Beaver valley.
	Desc.
27.00	Bottom of gulch, 350 ft. below ridge, course SE.
	Asc.
33.00	Top of rocky spur, 100 ft. above gulch, bears N.W. and SE.
	Desc.
41.55	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 29 in N half and S 30 in S half; and raise a mound of stone, 2 ft base, $1\frac{1}{2}$ ft. high, N. of cor.
52.60	Bottom of hollow, 100 ft. below spur, course SW.
	Asc.
54.80	Old road, bears NE and SW.
72.30	Top of rocky ridge, 200 ft. above hollow, bears N. and S.
	Desc.
81.55	The cor. of secs. 19, 20, 29, and 30. Land, rough and steep mountainous. Soil, black loam about 8 ins. deep, mixed with rock, with a gravelly subsoil. No timber. Undergrowth, sage and oak brush. Some good grass for grazing in patches. Mountainous land, or land covered with dense undergrowth.
81.55 chs.	

November 30, 1910.

December 1, 1910: At 8 h 49 m a.m., l.m.t., I set off 58°06' N.

Subdivision of T.31 S., R.8 W.-Continued.

Chains

on the lat.ar; 21°45'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.19,20,29, and 30.

Thence I run

W.0°6'W., betsecs.19 and 20.

Over mountainous land; through dense sage brush.

Asc.

4.40 Top of spur, 60 ft.above cor., bears E.and W.

Desc.

6.40 Bottom of hollow, 75 ft.below spur, course E.

Asc.

20.60 Top of divide ridge between Parowan valley and Beaver valley, 3000 ft.above hollow, bears N.80°E.and S.80°W.

Desc.

39.40 Bottom of hollow, 75 ft.below ridge, course N.80°W.

Asc.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 16 ins.in the ground, on rock, and surrounded by mound of earth, for sec.cor.. mkd.on brass cap 1 S 19 in W half and S 20 in E half; dig pits, 18x18x12 ins.N.and S.of post, 3 ft.dist. and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high, W.of cor

44.00 Top of spur, 70 ft.above hollow, bears E.and W.

Desc.

70.50 Bottom of hollow, 300 ft.below spur, course N.30°E.

Asc.

80.00 Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the hround, for cor.of secs.17,18,19, and 20 , mkd.on brass cap
T 31 S S 18 in NW.

R 8 W S 17 in NE.

S 20 in SE.; and

S 19 in SW.quadrants; and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor.

Land, rolling mountains slopes South on S.20.60 chs, and northerly on N.39.40 chs.

Soil, sandy and clay loam about 1 ft.deep, covered with

Subdivision of T.51 S., R.8 W.-Continued.

Chains lava rock; clay subsoil.
No timber.

Undergrowth, sage brush and scattering oak.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 cbs.

N.89°58'E., on a random line bet. secs. 17 and 20.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.98 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 16, 17, 20, and 21.

Thence I run

West, on a true line bet. secs. 17 and 20.

Over mountainous land; through dense undergrowth.

Desc.

10.50 Bottom of hollow, 200 ft. below ridge, course N.

Asc.

16.75 Top of ridge, 200 ft. above hollow, bears N.30°W. and S.50°E.

Desc.

33.20 Bottom of hollow, 300 ft. below ridge, course N.55°W.

Asc.

39.99 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkl. on brass cap $\frac{1}{4}$ S. 17 in N half and S. 20 in S half; and dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

43.00 Top of ridge, 160 ft. above hollow, bears N.20°W. and S.20°E.

Desc.

48.80 Bottom of hollow, 90 ft. below ridge, course N.20°W.

Asc.

53.00 Top of ridge, 180 ft. above hollow, bears N.20°W. and S.20°E.

Desc.

60.60 Bottom of hollow, 75 ft. below ridge, course N.18°W.

Asc.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
65.50	Top of ridge, 75 ft. above hollow, bears N.20°W. and S.20°E. Desc.
75.50	Bottom of hollow, 300 ft. below ridge, course N.20°W. Asc.
79.98	The cor. of secs. 17, 18, 19, and 20. Land, rolling mountains sloping gradually northward. Soil, sandy and clay loam about 1 ft, deep, mixed with coarse gravel and covered with granite rock. Hard clay subsoil. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth. 79.98 chs. December 1, 1910: At this cor. I set off 21°45' S., on the decl. arc; and at 11 h 49 m a.m., l.m.t., I observe the sun on the meridian the resulting lat. is 38°07' N., which is the proper lat. nearly.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.59	Intersect W. bdy. of Tp., 2 lks. N. of the cor. of secs. 13, 18, 19, and 24. heretofore described. Thence I run N. 89°59' E., on a ^{true} random line bet. secs. 18 and 19. Over mountainous land; through dense sage brush. Asc.
1.00	Top of ridge, 10 ft. above cor., bears N. and S. Desc.
6.90	Bottom of swale, 40 ft. below ridge, course N. Asc.
15.90	Top of ridge, 30 ft. above swale, bears N. and S. Desc.

Subdivision of T.31 S., R.8 W.-Continued.

Chains

- 25.20 Old road, bears NE and SW.
Bottom of hollow, 85 ft. below ridge, course NE.
Asc.
- 31.50 Top of ridge, 80 ft. above hollow, bears N. and S.
Desc.
- 41.59 Set an iron post, 3 ft. long, 1 in. in dia., 18 in. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 18 in N half and S 19 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 45.30 Bottom of hollow, 80 ft. below ridge, course NW.
Asc.
- 60.80 Top of ridge, 100 ft. above hollow, bears N. and S.
Desc.
- 62.00 Old road, bears N. and S.
- 67.80 Bottom of hollow, 65 ft. below ridge, course N.
Asc.
- 77.50 Top of ridge, 30 ft. above hollow, bears N. and S.
Desc.
- 81.59 The cor. of secs. 17, 18, 19, and 20.,
Land, high rolling mountains .gradual slope and drainage to the north.
Soil, sandy loam about 1 ft. deep, 2nd rate; mixed with coarse gravel.
- No Timber .
Undergrowth, sage brush.
Some good grass.
Mountainous land, or land covered with dense undergrowth,
81.59 chs.

December 1, 1910.

December 2, 1910: At 8 h 49 m a.m., l.m.t., I set off $38^{\circ}07'N.$, on the lat.arc; $21^{\circ}52'S.$, on the decl.arc; and determine a meridian

Subdivision of T.31 S., R.8 W.-Continued.

Chains	with the solar atk the cor.of secs.17,18,19, and 20. Thence I run N.0°3'W., bet.secs.17 and 18. Over mountainous land;through dense sage brush. Desc.
7.00	B8t00m of hollow,70 ft.below cor.,course NW. Asc.
24.00	Top of spur,70 ft.above hollow,bears E.and W. Desc.
59.50	Bottom of hollow,40 ft.beld ^W spur,course W. Asc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 18 in W half and S 18 in E half;dig pits,18x18x12 ins.,N.and S.of post 3 ft.dist.;and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high W.of cor.
42.40	Top of spur,50 ft.above hollow,bears E.and W. Desc.
61.70	Bottom of hollow,50 ft.below spur,course NW. Asc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.7,8,17, and 18,mkd.on brass cap T 31 S S 7 in NW. R 8 W S 8 in NE. S 17 in SE.;and S 18 in SW.quadrants;and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor. Land,rolling and high mountains .slopes gradually north. Soil,rich sandy loam about $1\frac{1}{2}$ ft.deep, and mixed with rock and gravel ;3rd rate.Subsoil ,hard clay. No timber. Undergrowth,sage brush. Good grass for grazing. Mountainous land,or land covered with dense undergrowth, 80.00 chs.

Subdivision of T.31-S., R.8-W.-Continued.

Chains	
	East, on a random line bet. secs. 8 and 17.
40.00	Set temp. 1 sec.cor.
80.02	Intersect N. and S. line, 2 lks. N. of the cor. of secs. 8, 9, 16, and 17. Thence I run N. 89° 59' W., on a true line bet. secs. 8 and 17. Over mountainous land; through dense sage brush.
	Desc.
5.75	Bottom of hollow, 100 ft. below sec.cor., course N. Asc.
10.00	Top of spur, 90 ft. above hollow, bears N. and S. Desc.
14.00	Bottom of hollow, 200 ft. below spur, course N. 14° E. Asc.
14.50	Old road, bears N. 14° E. and S. 14° W.
37.50	Top of ridge, 400 ft. above hollow, bears N. and S. Desc.
40.01	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 8 in N half and S 17 in S half; and raise a mound of stone, 2 ft base, $1\frac{1}{2}$ ft. high, N. of cor.
54.75	Bottom of hollow, 250 ft. below spur, course N. 10° E. Asc.
58.15	Top of ridge, 70 ft. above hollow, bears N. and S. Desc.
68.60	Bottom of hollow, 200 ft. below ridge, course N. 10° E. Asc.
76.10	Top of ridge, 200 ft. above hollow, bears N. 8° W. and S. 8° E. Desc.
80.02	The cor. of secs. 7, 8, 17, and 18. Land, rolling mountains.

Subdivision of T.31 S., R.8 W.-Continued.

	Chains	Soil, sandy and clay loam about 8 ins. deep, mixed with gravel and gravelly subsoil. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.02 chs. December 2, 1910: At the noon hour the sky is overcast and solar observations are impossible.
		S.89°59'W., on a random line bet. secs. 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.	
81.60	Intersect W.bdy. of Tp., 5 lms. S. of the cor. of secs. 7, 12, 13, and 18, heretofore described. Thence I run	
		S.89°59'E., on a true line bet. secs. 7 and 18. Over rolling mountainous land; through dense sage brush Asc.
5.00	Top of spur, 30 ft. above cor., bears N. and S. Desc.	
7.50	Bottom of swale, 25 ft. below spur, course N. Asc.	
13.80	Top of ridge, 45 ft. above swale, bears N. and S. Desc.	
18.85	Bottom of hollow, 50 ft. below ridge, course N. Asc.	
26.00	Top of ridge, 100 ft. above hollow, bears N. and S. Desc.	
34.80	Bottom of hollow, 110 ft. below ridge, course NE. Asc.	
35.40	Old road, bears NE and SW.	
41.60	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd on brass cap $\frac{1}{4}$ S 7 in N half	

Subdivision of T.31.S., R.8.W.-Continued.

Chains

and S 18 in S half; and raise a mound of stone, 2 ft. base,
 $1\frac{1}{2}$ ft. high, N. of cor.

43.70 Top of ridge, 120 ft. above hollow, bears N. and S.

Desc.

49.00 Bottom of hollow, 85 ft. below ridge, course N.

Asc.

57.00 Top of ridge 90 ft. above hollow, bears N. and S.

Desc.

70.10 Bottom of hollow, 100 ft. below ridge, course N. 15°W.

Asc.

81.60 The cor. of secs. 7, 8, 17, and 18.

Land, rolling and high mountains. slopes northward.

Soil, sandy and clay loam about $1\frac{1}{2}$ ft. deep, mixed with
 rock; subsoil gravel and clay.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

81.60 chs.

N. 0°3'W., bet. secs. 7 and 8.

Over mountainous land; through dense sage brush.

Asc.

6.00 Top of ridge, 100 ft. above cor., bears N. 80°W. and S. 80°E.

Desc.

✓ 40.00 Set an iron post 3 ft. long, 1 in. in dia., 18 ins. in the
 ground, on hard gravel and surrounded by mound of earth, for
 $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 7 in W half; and S 8 in E
 half; and dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.
 and raise a mound of earth, $3\frac{1}{2}$ ft. base $\frac{1}{2}$ ft. high, W. of
 cor.

59.50 Bottom of hollow, 300 ft. below ridge, course NW.

Asc.

Subdivision of T.31.S., R.8.W.-Continued.

Chains

67.50 Top of spur, 35 ft. above hollow, bears NW and SE.

Desc.

72.10 Bottom of swale, 60 ft. below ridge, course NW.

Asc.

75.80 Top of spur, 30 ft. above swale, bears NW and SE.

Desc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, mkd. on brass cap
T 31 S 8 6 in NW.

(R 8 W S 5 in NE.

S 8 in SE.; and

S 7 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling mountains.

Soil, sandy loam about 1 ft. deep, mixed with rock and gravel
Subsoil, clay.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

December 2, 1910.

December 3, 1910-At 8 h 50 m a.m., l.m.t., I set off $38^{\circ}09'$ E., on the lat. arc; $22^{\circ}01'$ S., on the decl. arc; and determine a meridian with the sextant, at the cor. of secs. 5, 6, 7, and 8.

Hence I run

S. $39^{\circ}59'$ E., on a random line bet. secs. 5 and 8.

40.00 Set temp. 1 sec. cor.

72.98 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 4, 5, 8, and 9.

Subdivision of T. 31 S., R. 8 W. -Continued.

Chains

Thence I run

N.89°57'W., on a true line bet. secs. 5 and 8.

Over mountainous land; through dense sage brush.

Desc.

19.00 Bottom of hollow, 300 ft. below cor., course N.15°E.

Asc.

29.00 Top of ridge, 350 ft. above hollow, bears N.15°E. and S.15°W.

Desc.

59.99 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 5 in N half and S 8 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

46.50 Bottom of hollow, 400 ft. below ridge, course N.25°E.

Asc. abruptly.

62.20 Top of ridge, 350 ft. above hollow, bears N.25°E. and S.25°W.

Desc.

72.00 Bottom of hollow, 200 ft. below ridge, course N.

Asc.

75.50 Top of spur, 100 ft. above hollow, bears N. and S.

Desc.

79.98 The cor. of secs. 5, 6, 7, and 8.

Land, rolling mountains . slopes northward.

Soil, sandy loam about 1 ft. deep, mixed with lava and granite rock.

Subsoil, hard clay and gravel.

No timber.

Undergrowth, sage brush.

No grass.

Mountainous land, or land covered with dense undergrowth,

79.98 chs.

Subdivision of T.51 S., R.8 W.-Continued.

Chains	
	N.89°59'W., on a random line bet. secs. 6 and 7.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
81.60	Intersect W. bdy. of Tp., 2 lks. S. of the cor. of secs. 1, 6, 7, and 12. heretofore described. Thence I run S.89°58'E., on a true line bet. secs. 6 and 7. Over mountainous land; through dense sage brush.
	Asc.
180	Top of ridge, 10 ft. above cor., bears NW and SE. Desc.
11.30	Bottom of hollow, 150 ft. below ridge, course NE. Asc.
15.60	Top of spur, 40 ft. above hollow, bears N.15°E. and S.15°W. Desc.
31.70	Bottom of canon, 400 ft. below spur, course NE. Asc.
41.60	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 6 in N half and S 7 in S half; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
45.90	Top of spur, 160 ft. above canon, bears N. and S. Desc.
53.00	Bottom of hollow, 160 ft. below ridge, course N. Asc.
70.50	Top of ridge, 300 ft. above hollow, bears N. and S. Desc.
80.40	Bottom of hollow, 200 ft. below ridge, course N.30°E. Asc.
81.60	The cor. of secs. 5, 6, 7, and 8. Land, steep and rough mountains. Soil, sandy loam mixed with rock, about 1 ft. deep, subsoil, gravel. No timber.

Subdivision of T.31 S., R.8 W.-Continued.

Chains

Undergrowth.sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
81.60 chs.December 3, 1910: At this cor. I set off 22°05'S., on the
decl.arc; and at 11 h 50 m a.m., l.m.t., I observe the
the sun on the meridian, the resulting lat. is 36°09'N.,
which is the proper lat.nearly.

N.0-°03'W., on a true line bet.secs.5 and 6.

Over mountainous land; through dense sage brush.

Desc.

.95 Bottom of hollow, 20 ft. below sec.cor., course N.W.50°E.

Asc..

10.00 Enter scattering cedar and pinon pine timber, bears
E.and W.

16.70 Top of spur, 60 ft. above hollow, bears NE and SW;

Desc.

40.00 Set an iron post, 5 ft. long, 1 in. in dia., 16 ins. in the
ground, on rock, and surrounded by mound of earth and
stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 6 in W half
and S 5 in E half; from which

A pinon pine, 6 ins. dia., bears N.6°W., 83 lks.

dist..mkd. $\frac{1}{4}$ S 6 B.T.No other tree within limits; raise a mound of stone, 2 ft.
base, $1\frac{1}{2}$ ft. high, W.of cor.

46.20 Bottom of canon, 500 ft. below spur, course N.50°E.

Asc.abruptly over volcanic rock slide.

72.10 Leave rock slide at top of steep ascent, bears E.and W.
Continue ascent.

79.00 Top of ridge, 800 ft. above canon, bears E.and W.

Desc.

85.00 Bottom of swale, 60 ft. below ridge, course W.

Asc.

Subdivision of T.31 S., R.8 W.-Continued.

Chains	
89.88	Intersect 6th Standard Parallel South, 17.00 chs. East of Standard $\frac{1}{4}$ sec.cor.on S.side of sec.31, heretofore described.
	Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.5 and 6,mkd.on brass cap
	✓ C C T 30 S R 8 W S 31 S 32 in N half.
	✓ R 8 W S 5 in SE.;and
	✓ T 31 S S 6 in SW.quadrants;from which
	A pinon pine, 9 ins.dia., bears S.11°E., 39 lks.
	dist..mkd.T 31 S R 8 W S 5 B T.
	A pinon pine, 8 ins.dia., bears S.47°W., 50 lks.
	dist..mkd.T 31 S R 8 W S 6 B T.
	Land, steep and rough mountains.
	Soil, sandy loam;2nd rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 89.88 chs.
	December 3, 1910.
	<i>John R Stewart</i> Instrumentman G.L.O.
	General Description.
	The greater part of this township lies north of the ridge of mountain dividing Parowan valley from Beaver valley. This divide ridge runs in a northeasterly and southwesterly direction diagonally through the township. North of the divide the country slopes gradually northward and drains eventually into Beaver Valley. South of the divide the country breaks off precipitously far from

Subdivision of T.51;S., R.8 W.-Continued.

Chains

six to eight hundred feet to the foot hills of Parowan valley. The part of the township north of the divide is rolling with smooth slopes almost free from timber and covered with a dense undergrowth of sage brush. It produces a good growth of grasses and would be a good summer range for cattle if there was any water; but there is no water therefore it used for late fall and early spring grazing for sheep and cattle, PR

South of the divide ridge the country is covered with a heavy growth of cedar and pinon pine timber and a scattering growth of sage and oak brush. It produces good grass in patches and is used for winter grazing of sheep and cattle. The timber is valuable only for fuel and for fence posts. There is a small spring in sec. 32, in the bottom of a canon, not seen from line.

The sedimentary rock found in the township is sandstone, which outcrops in the southern end of the township and is covered in the northern part by five or six hundred feet of volcanic rock.

There is no mineral in the township; and no settlers were found living on or improving any land in the township.

John R. Stewart
Guriby Stewart

December 3, 1910.

Instrumentmen G.L.O.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

_____, Chainman.

For final oaths of assistants see book "X" T.34 S., R. 10, Chainman.

W. _____ for John R. Stewart's assistants, _____, Moundman.

_____, Moundman.

For final oaths of Quinby Stewart's assistants see book _____, Axman.

" X " T.34 S., R.10 W. _____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

general for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor _____, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date _____, day of _____, 190_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final oaths of Translators see book "Z¹²" T.31 S., R. 9 W.

of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

United States Deputy Surveyor _____

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



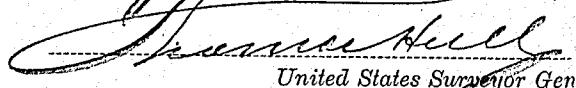
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1910

The foregoing field notes of the survey of _____ the subdivisional lines of Township No. 31 South, Range No. 8 West of the Salt Lake Base and Meridian, Utah,

executed by _____ John R. Stewart and Quinby Stewart _____ their special instructions under his contract No. _____, dated August 6, 1910, 190x, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.


George H. Hall
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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Page

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Page**

Filed Apr. 25, 1911.

4-679

Ex.M.F.Y.

S.

E.R.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

RETRACEMENT SUBDIVISION

AND

RETRACEMENT WEST BOUNDARY

OF

TOWNSHIP NO. 32 S., R. NO. 8 WEST

Of the Salt Lake Base and Meridian,

In the State of U.T.A.H.

EXECUTED BY

JOHN R. STEWART AND QUINBY STEWART

In the capacity of U.S. Surveyors, under instructions dated August 6, 1910., issued by the United States Surveyor General to govern surveys included in Group No. 1, which were approved by the Commissioner of the General Land Office, August 25, 1910., pursuant to authority contained in the Act of Congress dated , 1910.

Survey commenced November 28, 1910.

Survey completed December 5, 1910.

NAMES AND DUTIES OF ASSISTANTS.

R.Bert Carter, Chainman.
 Verne O.Nelson, Chainman.
 Isaac R.Hayes, Moundman,
 Ruban W.Riley, Axman.

For preliminary affidavits see book "L" T.31 S., R.7 W.

BOOK A-385.

INDEX DIAGRAM.

Township _____, Range _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

BOOK A-385

INDEX DIAGRAM.

Township No. 32 South, Range No. 8 West.

1	6	9	5	7	4	3	2	1
3		5						
7		8		9		10		11
16		17		18		15		14
19		20		21		22		23
30		20		28		27		26
31		32		33		34		35
								36

Meanders Page.

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Subscribed and sworn to before me this }
day of , 190 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

Subscribed and sworn to before me this }
day of , 190 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Subscribed and sworn to before me this }
day of , 190 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

Subscribed and sworn to before me this }
day of , 190 }



Retracement West bdy.T.32 S.,R.8 W.

Survey commenced November 28, 1910, and executed with a W. and L.E.Gurley Explorer's transit, No. 957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general, for Utah, on August 6, 1910.

Note: For test of instrument see notes of resurvey of 6th Standard Parallel South, through Range 8 West.

Note: Before commencing the subdivision of this township I proceed to retrace the line adjoining the new work.

From the re-established cor. of Tps. 31 and 32 S., Rs. 8 and 9 W., I run a retracement line through the boundary line South, on a retracement line bet. secs. 1 and 6.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Asc. 1.50 Top of granite ridge, 20 ft. above cor., bears NW. and SE.

Desc. 4.15 The old Tp.cor. point, cor. destroyed.

31.50 Bottom of hollow, 350 ft. below ridge, course East.

Asc. 33.30 Top of spur, 40 ft. above hollow, bears E. and W.

Desc. 45.24 Intersect the old $\frac{1}{2}$ sec.cor bet. secs. 1 and 6, which is a granite stone, 9x8x5 ins., above ground, well set, and mkd. and witnessed as described by the surveyor general, except that the trees are greatly decayed. I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{2}$ S E in W half and S. 6 in E. half; from which

A. pinon pine, 5 ins. dia., bears S. 79° E., 15 lks.

Retracement West bdy.T.32 S., R.8 W.-Continued.

- Chains dist..mkd. $\frac{1}{4}$ S 6 B T.
 A cedar, 7 ins. dia., bears N.28°30'W., 7 lks.
 dist..mkd. $\frac{1}{4}$ S 1 B T.
- 52.60 bottom of hollow, 170 ft. below spur, course S., comes from N. 10°E.
 Desc.in bottom of hollow .
- 57.00 Leave hollow, course S.5°W.
 Asc.
- 77.50 Top of spur, 80 ft. above hollow, bears E. and W.
 Desc
- 82.00 Bottom of swale, 50 ft. below spur, course W.
 Asc.
- 85.24 intersect the cor.of secs.1,6,7, and 12, which is a granite stone, 7x8x4 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. the cor. stone is poorly mkd. and the bearing trees have been partly burned; therefore, i destroy the old cor. and re-establish it in the same place as follows:
 Set an iron post, 3 feet long, 3 in. in dia., 20 ins. in the ground, on cemented gravel, and surrounded by mound of earth and stone, for cor.of secs.1,6,7, and 12,mkd.on brass cap
- T 32 S in N half;
 R 9 W S 1 in NW.
 R 8 W S 6 in NE.
 S 7 in SE.;and
 S 12 in SW.quadrants;from which
 A pinon pine, 12 ins. dia., bears N.58°45'E., 50 lks. dist..mkd.T 32 S R 8 W S 6 B T.
 A pinon pine, 6 ins. dia., bears S.39°30'E., 44 lks. dist..mkd.T 32 S R 8 W S 7 B T.
 A pinon pine, 12 ins. dia., bears S.37°30'W., 48 lks. dist..mkd.T 32 S R 9 W S 12 B T.
 A cedar, 8 ins. dia., bears N.48°W., 48 lks. dist..mkd.T 32 S R 9 W S 1 B T.

Retracement W.bdy.T.32 S., R.8 W.-Continued.

Chains and feet	The course of this mile is therefore South, 85.24 chs. Land, mountainous, broken and rough. Soil, sandy loam red in color, about 18 ins. deep, mixed with some rock and gravel. Timber, cedar and pinon pine. Undergrowth, scattering sage brush. No grass. Mountainous or heavily timbered land, 85.24 chs.
--------------------	--

November 28, 1910? At this cor. I set off $21^{\circ}15' S.$, on the decl. arc; and at 11 h 48 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $38^{\circ}03' N.$, which is the proper lat. nearly.

Retracement Subdivision of T.32 S., R.8 W.

From the above described cor. of secs. 1, 6, 7, and 12, on W. bdy. of Tp., I run, on ridge, a line due N. 89°48' E., on a retracement line bet. secs. 6 and 7, over mountainous land; through heavy cedar and pinon pine timber and scattering sage and oak brush.
Asc.
18.75 Top of ridge, 110 ft. above cor., bears N. and S.
Desc.
21.50 Bottom of swale, 100 ft. below ridge, course S.
Asc.
25.60 Top of spur, 50 ft. above hollow, bears N. and S.
Desc.
29.10 Bottom of hollow, 65 ft. below spur, course S. $10^{\circ} W.$
Asc.
38.00 Top of rocky ridge, 50 ft. above hollow, bears N. $15^{\circ} W.$ and S. $15^{\circ} E.$
Desc.
39.94 Fall 14 lks. South of the $\frac{1}{4}$ sec. cor. bet. secs. 6 and 7, which

Retracement Subdivision of T.32 S., R.8 W.-Continued.

Chains
is a pinon pine tree, 14 ins. in dia., mkd. and witnessed as
described by the surveyor general. The tree cor. is partly
dead, therefore I destroy the old cor. and re-establish it
in the same place as follows: moving the root which
Set an iron post, 3 ft. long, 1 ins. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 6 in N half
and S 7 in S half; from which

A pinon pine, 10 ins. dia., bears N. 26° 30' E., .52
lks. dist. mkd. $\frac{1}{4}$ S. 6° B. T. G. L. 1.000 ft. above v.

Accedar, 5. ins. dia., bears S. 50°30' W., 14' lks.
dist.. mkd. 1 S 7 B.T.

44.40 Begin abrupt descent, bears N. and S. (non. 65) known

55.90 Bottom of canon, 400 ft. below ridge, course SE.

ASC.

58.00 Top of spur, 25 ft. above canon, bears NW and SE.

Desc. *Large, pale yellowish-green shrublet*

60.00 Bottom of canon, 400 ft. below spur, course S.

Asc. 563, T. 4, Section No. 10, 1/2 mile S. of town of Laramie, 41° 45' N.

73.85 Top of spur, 300 ft. above canon, bears N. and S.

desc: *Specimens from the same area as the type, but from a different locality.*

79.24 fall 82 lks.S.of the cor.of secs.5,6,7, and 8, which is
a conglomerate rock, 12x12x12 ins., above ground, firmly set
and mkd. and witnessed as described by the surveyor general.
The cor. stone, is poorly marked and quite badly decayed.
therefore I destroy the old cor. and re-establish it in the
same place as follows:

Set an iron post, 3 ft. long, 2 ins. in dia., 24 in. in the ground, for cor. of secs. 5, 6, 7, and 8, mkd. on brass cap

T 32 S S 6 in NW.

R 8 W S 5 in NE.

S 8 in SE.; and

S. 7 in SW. quadrants; from which

A cedar, 7 ins. dia., bears N.34°E., 21 lks.

dist..mkd.T 32 S R 8 W S 5 B T.

A cedar, 10 ins. dia., bears S. 64° E., 61 lks.

Retracement Subdivision T.32 S., R.8 W.-Continued.

Chains

dist.; mkd. T 32 S R 8 W S 8 B T.

A limb of a cedar, 8 ins. dia., bears S.13°W., 110 ft.
lks. dist. mkd. T 32 S R 8 W S 7 B T.A cedar, 26 ins. dia., bears N.44°W., 9 lks. dist.
mkd. T 32 S R 8 W S 6 B T.The course of the west half of this mile is therefore
East, 39.94 chs. and the east half is N.89°13'E., 39.30
chs.

Land, broken and rough ridges and hollows.

Soil, red clay and sand about 2 ft. deep, mixed with some
rock; subsoil, clay.

Timber, cedar and pinon pine.

Undergrowth, sage and oak brush.

Good grass for grazing on East half mile, none on west half.

mountainous or heavily timbered land, 79.24 chs.

November 28, 1910.

December 5, 1910: At 8 h 50 m a.m., l.m.t., I set off 38°03'N.,
on the lat.arc; 22°18'S., on the decl.arc; and determine a
meridian with the solar, at the cor.of secs. 5, 6, 7, and 8.

Thence I run

N.89°45'E., on a retracement line bet.secs. 5 and 8.

over mountainous land; through heavy cedar and pinon pine
timber and dense sage brush.

Desc.

17.30 Wood road, bears NW and SE.

Bottom of hollow, 250 ft. below cor., course SE.

Asc.

27.00 Top of rocky ridge, 60 ft. above hollow, bears N.25°E. and
S.25°W.

Desc.

35.00 Wood road, bears N. and S.

Bottom of hollow, 150 ft. below ridge, course S.

Retracement Subdivision T.32 S., R.8 W.-Continued.

chains

Asc.

- 40.19 Fall 2 lks.S.of the $\frac{1}{4}$ sec.cor.betsecs.5 and 8,which is limestone,5x10x5 ins.,above ground,poorly set, and mkd. and witnessed as described by the surveyor general,The old cor.is poorly set, and poorly mkd.therefore I destroy it and re-establish the cor.in the same place as follows Set an iron post,3 ft.long,1 in.dia.,18 ins.in the ground, on solid rock, and surrounded by mound of earth and stone,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 5 in N half and S 8 in S half;from which A cedar,6 ins.dia.mbears N.2°E.,18 lks. dist..mkd. $\frac{1}{2}$ S 5 B T.
- A cedar,8 ins.dia.,bears S.67°30'W.,33 lks. dist..mkd. $\frac{1}{2}$ S 8 B T.
- 66.20 Top of ridge,180 ft.above hollow,bears N.and S.

Desc.

- 76.10 Wood road,bears NW and SE.

Bottom of hollow,140 ft.below ridge,course SE.

Asc.

- 80.09 Fall 77 lks.South of the cor.of secs.4,5,8, and 9,which is a porphyry stone,10x10x10 ins.above ground,firmlly set, and mkd.and witnessed as described by the surveyor general. The stone is partly decayed and there are only two trees marked when there should be four;therefore I destroy the old cor.and re-establish it in the same place as follows Set an iron post,3 ft.long,2 ins.dia.,20 ins.in the ground, on rock, and surrounded by mound of earth and stone for cor.of secs.4,5,8, and 9,mkd.on brass cap

T 32 S B 5 in NW.,

R 8 W S 4 in NE.

S 9 in SE.;and

S 8 in SW.quadrants;from which

A cedar limb,6 ins.dia.,bears N.25°E.,78 lks.

dist..mkd. T 32 S R 8 W S 4 B T.

Retracement Subdivision of T.32 S., R.8 W.-Continued.

Chains

A pinon pine, 10 ins. in dia., bears S.25°E., 41 lks

dist..mkd.T 32 S R 8 W S 9 B T.

A pinon pine, 20 ins. dia., bears S.37°30'W., 38 lks

dist..mkd.T 32 S R 8 W S 8 B T.

A pinon pine, 11 ins. dia., bears N.36°W., 77 lks.

dist..mkd.T 32 S R 8 W S 5 B T.

The course of the west half of this mile is therefore
 N.89°43'E., 40.19 chs. the east half is N.89°32'E., 39.90 chs.
 Land, broken and rough ridges and hollows:

Soil, hard and dry sandy loam mixed with rock and gravel
 about 1 ft. deep, subsoil, gravel.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered
 with dense undergrowth, 80.09 chs.

N.0°18'E., on a retracement line bet. secs. 4 and 5.

Over mountainous land; through heavy cedar and pinon pine
 timber and scattering oak and buck brush and dense sage.

Asc.

17.25 Top of spur, 100 ft. above cor., bears NE and SW.

Desc.

22.50 Bottom of hollow, 85 ft. below spur, course S.15°W.

Asc.

30.85 Top of ridge, 150 ft. above hollow, bears E. and W.

Desc.

40.23 Fall 17 lks. East of the $\frac{1}{4}$ sec.cor.bet.secs.4 and 5, which

is a pinon pine, 15 ins. in dia., mkd. and witnessed as de-
 scribed by the surveyor general. The tree is dead therefore
 I destroy the old cor. and re-establish it in the same
 place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground

Retracement Subdivision of T.32 S., R.8 W.-Continued.

Chains
on solid rock, and surrounded by mound of earth and stone,
for $\frac{1}{4}$ sec.cor..mkd.on brass cap. $\frac{1}{4}$ S.5 in N half and S 4
in E half; from which point I set off 22°19'S. on the
A cedar, 16 ins. dia., bears N.77°W., 22 lks.
dist..mkd. $\frac{1}{4}$ S.5 B.T. only point A
A. pinon pine, 8 ins. dia., bears S.31°30'E., 50 lks.
dist..mkd. $\frac{1}{4}$ S.4 B.T. only point B
40.40 Bottom of hollow, 120 ft. belo ridge, course E.
Asc. parallel line bearing N.E. 45°. 100 ft.
41.50 Top of spur, 60 ft. above hollow, bears E. and W., 120 ft.
Desc. long. slopes, gash. 30 ft. deep
47.00 Bottom of hollow, 90 ft. below spur, course E.
Asc. curved to the right, 100 ft.
59.30 Top of ridge, 150 ft. above hollow, bears NW and SE.
Desc. long. West side of ridge, 100 ft. deep
66.50 Bottom of hollow, 75 ft. below ridge, course E.
Asc.
71.00 Top of ridge, 80 ft. above hollow, bears NW and SE.
Desc.
77.10 Bottom of hollow, 100 ft. below ridge, course SE.
Asc.
84.29 Fall 229 lks. West of the cor. of secs. 4, 5, 32, and 33,
on N.bdy. of Tp., heretofore described.
The course of the south half of this mile is therefore
N.0°3'E., 40.23 chs. and the north half is N.3°30'E. 44.13
chs.
Land, mountainous and broken.
Soil, rich sandy loam about 1 ft. deep, 2nd rate. Subsoil,
clay and gravel.
Timber, cedar and pinon pine.
Undergrowth, sage, oak, and buck brush.
Some patches of good grass.
mountainous or heavily timbered land, or land covered
with dense undergrowth, 84.35 chs.
December 5, 1910: At this cor. I set off 22°19'S. on the

Retracement Subdivision of T.32 S., R.8 W.-Continued.

Chains

decl.arc; and at 11 h 50 m a.m., l.m.t.kI observe the sun
on the meridian, the resulting lat. is $38^{\circ}04'N.$, which
is the proper lat.nearly.

On 1/2 mile N.E. of the cor. of sec. 5, I observed the sun
at 12 m 10 s. a.m., l.m.t.kI, and the resulting lat. was
 $38^{\circ}04'N.$

On 1/2 mile N.E. of the cor. of sec. 5, I observed the sun
at 12 m 10 s. a.m., l.m.t.kI, and the resulting lat. was
 $38^{\circ}04'N.$

On 1/2 mile N.E. of the cor. of sec. 5, I observed the sun
at 12 m 10 s. a.m., l.m.t.kI, and the resulting lat. was
 $38^{\circ}04'N.$

On 1/2 mile N.E. of the cor. of sec. 5, I observed the sun
at 12 m 10 s. a.m., l.m.t.kI, and the resulting lat. was
 $38^{\circ}04'N.$

On 1/2 mile N.E. of the cor. of sec. 5, I observed the sun
at 12 m 10 s. a.m., l.m.t.kI, and the resulting lat. was
 $38^{\circ}04'N.$

Subdivision of T.32 S., R.8 W.

From the cor. of secs. 5, 6, 7, and 8, heretofore described
I run

North, on a true line bet. secs. 5 and 6. I run
Knowing from retracement made that the line will not in-
tersect the N.bdy. of Tp., within the limits prescribed by
the manual.

Over mountainous land; through heavy cedar and pinon pine
timber and scattering sage and mahogany.

Asc. 50 ft. from ground to top of ridge; ground even.

6.30 Top of spur, 100 ft. above cor., bears E. and W.

Desc. 50 ft. from top of spur to bottom of hollow, ground even.

18.00 Bottom of hollow, 125 ft. below spur, course E.

Asc. 50 ft. from bottom of hollow to top of ridge; ground even.

26.50 Top of spur, 60 ft. above hollow, bears NW. and SE.

Desc. 50 ft. from top of spur to bottom of hollow, ground even.

32.20 Wood road, bears NW. and SE.

Bottom of hollow, 150 ft. below spur, course SE.

Asc. 50 ft. from bottom of hollow to top of ridge; ground even.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{2}$ S 6 in W half
and S 5 in E half; from which

A pinon pine, 14 ins. dia., bears S. $42^{\circ}E.$, 34 lks.

dist.. mkd. $\frac{1}{4}$ S 5 B T. found 34 lks.

A pinon pine, 6 ins. dia., bears N. $78^{\circ}W.$, 18 lks.

dist.. mkd. $\frac{1}{4}$ S 6 B T.

Subdivision of T.32 S., R.8 W.-Continued.

Chains	
49.00	Top of ridge, 150 ft. above hollow, bears NW and SE. Desc.
57.50	Bottom of hollow, 100 ft. below ridge, course SE. Asc.
60.00	Top of spur, 80 ft. above hollow, bears NW and SE. Desc.
72.50	Bottom of hollow, 60 ft. below spur, course SE. Asc.
74.30	Top of rocky spur, 35 ft. above hollow, bears NW and SE. Desc.
75.60	Bottom of hollow, 25 ft. below spur, course SE. Asc.
83.50	Top of rocky spur, 45 ft. above hollow, bears NW and SE. Desc.
84.67	Intersect N. bdy. of Tp., 2.72 chs. West of the cor. of secs. 5, 6, 31, and 32, heretofore described. Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for closing cor. of secs. 5 and 6, mkd. on brass cap C C T 31 S R 8 W S 31 S 32 in N half. R 8 W S 5 in SE.; and dist. maked T 32 S R 8 W S 5 B T. T 32 S S 6 in SW. quadrants; from which A cedar, 8 ins. dia., bears S. 70° E., 39 lks. dist. maked T 32 S R 8 W S 6 B T. A cedar, 8 ins. dia., bears S. 78° W., 10 lks. dist. maked T 32 S R 8 W S 6 B T. Note: I destroy all marks on the cor. of secs. 5, 6, 31, and 32, which pertain to secs. 5 and 6. Land, rough and mountainous; soil, sandy loam mixed with rock and gravel; 3rd rate. Timber, cedar and pinon pine. Undergrowth sage brush and mahogany. A very little grass.

Subdivision of T.32 S., R.8 W.-Continued.

Chains

Mountainous or heavily timbered land, 84.67 chs.

December 5, 1910.

John R. Stewart

Instrumentman G.L.O.

Latitudes, departures, and closing errors.

Line Designated.	course.	dist-	Latitudes	Departures		
		ance	N. chs.	S. chs.	E. chs.	W. chs.
W.bdy.T.32 S.,R.8 W. North		85.24	.85.24	.	.	.
N.bdy.T.32 S.,R.8 W.East		161.90		161.90		
E.bdy.sec.5						
Sub.T.32 S.,R.8 W.	S.3°30'W.	44.12		44.04		2.70
E.bdy.sec.5						
Sub.T.32 S.,R.8 W.	S.0°3'W.	40.23		40.23		.03
S.bdy.sec.5,						
Sub.T.32 S.,R.8 W.	S.89°32'W.	39.90		.32		39.90
S.bdy.sec.5						
Sub.T.32 S.,R.8 W.	S.89°43'W.	40.19		.20		40.19
S.bdy.sec.6						
Sub.T.32 S.,R.8 W.S.89°13'W.		39.30		.54		39.30
S.bdy.sec.6						
Sub.T.32 S.,R.8 W.West		39.94				39.94
Convergency				.03		
Totals			85.24	85.33	161.93	162.06
				85.24		161.93
Error in lat.				.09		
Error in Dep.						.13

GENERAL DESCRIPTION.

This township rough and mountainous occupying the foot hill or mountains just north of Parowan valley. The slope and drainage is southward into Parowan Valley. The sedi-

Subdivision of T.32 S. R.8 W.-Continued.

Chains

The soil is derived from the underlying red sandstone, which is mostly horizontal. The sandstone and limestone is covered with a volcanic overflow from 100 to 500 feet deep. The soil is generally sandy loam and quite rich but is mixed with considerable rock. The subsoil is usually clay or gravel. Only a light growth of grass is produced, but there is a heavy growth of cedar and pinon pine timber; a great deal of wood for fuel is hauled from this country to Paragonah and Parowan.

There is a spring not seen from line is sec. 5.

No settlers in the township; and no mineral.

John R Stewart
Instrumentman G.L.O.

December 5, 1910.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**LIST OF NAMES.**

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book, *Chainman.*

"X" T. 34 S., R. 10 W., *Chainman.*

, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for _____

, *Chainman.*

, *Chainman.*

, *Moundman.*

, *Moundman.*

, *Axman.*

, *Axman.*

, *Flagman.*

Subscribed and sworn to before me this _____
day of _____, 190_____ }



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BOOK A-385
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APR 15 1911

FIELD NOTES

OF THE SURVEY OF THE

RETRACEMENT EAST BOUNDARY

and

SURVEY OF

WEST AND NORTH BOUNDARIES

of

Township No. 32 South, Range No. 9 West,

Of the Salt Lake Base and Meridian,
State of Utah,

AS SURVEYED BY

John R. Stewart and Quinby Stewart United States Transitmen.

Under his Contract No. 1, dated August 6, 1910, FOX

Survey commenced December 5, 1910, FOX

Survey completed December 10, 1910, FOX

6-101

6-101 100-304
6-101 100-304
6-101 100-304
6-101 100-304

NAMES AND DUTIES OF ASSISTANTS.

R.Bert CarterChainmanVerne O.NelsonChainmanIsaac R.HayesMoundmanRuben W.RileyAxman

BOOK A-385

INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

W. R. Bent-Carter and Verne O. Nelson
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level sights upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assay measuring, to the best of our skill and ability, and in accordance with instructions given us, in the surveying,

Retracement E.bdy.and Survey N.and W.bdys.T.32.S.,R.9.W. of the S.L.B. & M., Utah.

R. Bent Carter, Chain
Verne O. Nelson, Chain

Subscribed and sworn to before me this 5
day of December, 1910, 1900



John R. Stewart
U.S. Instrumentman

W. Isaac R. Hayes
do solemnly swear that I will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given me to the best of my skill and ability, in the surveying,

Retracement E.bdy.and Survey N.and W.bdys.T.32.S.,R.9.W. of the S.L.B. & M., Utah.

Isaac R. Hayes, Mound
Mound

Subscribed and sworn to before me this 5
day of December, 1910, 1900



John R. Stewart
U.S. Instrumentman

W. Ruban W. Riley
do solemnly swear that I will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given me to the best of my skill and ability, in the surveying,

Retracement E.bdy.and Survey N.and W.bdys.T.32.S.,R.9.W. of the S.L.B. & M., Utah.

Ruban W. Riley, Ax
Ax

Subscribed and sworn to before me this 5
day of December, 1910, 1900



John R. Stewart
U.S. Instrumentman

I, do solemnly swear that I will well and faithfully perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the surveying,

Subscribed and sworn to before me this 5
day of December, 1910, 1900



Retracement east bdy. E. 32 S., n. 9 W.

survey commenced December 5, 1910, and executed with a W. and L.E. Gurley Explorer's transit, No. 957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general, for Utah, on August 6, 1910.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by observations on Polaris, I proceed as follows:

At the cor. of secs., 1, 6, 7, and 12, on E. bdy. of tp., latitude $38^{\circ}03'24''$ N., longitude $112^{\circ}46'22''$ W., I set off $38^{\circ}03'$ N., on the lat. arc; $22^{\circ}48'$ S., on the decl. arc; and at 3 h 50 m p.m., l.m.t., I determine a meridian with the solar, and mark a point in the line thus determined by a mark on a stone firmly set in the ground, 5.00 chs. N. of the cor.

December 5, 1910.

December 6, 1910: At 2 h 28 m a.m., l.m.t., I observe Polaris at western elongation, in accordance with the manual and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor. At 8 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}29.4'$ to the east and mark a point in the meridian thus determined, by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.40 ins. east of the meridian established by the solar.

At 8 h 54 m a.m., l.m.t., I set off $38^{\circ}03'$ N., on the lat. arc;

Retracement East bdy. T.32 S., R.9 W.-Continued.

Chains	<p>Set out a line due North from the cor. of sec. 12, 22°25' S., on the decl. arc; and mark the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.37 ins. east of the meridian established by Polaris observation. The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about 0'24" west and 0'19" east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.</p> <p>The magnetic bearing of the meridian at 8 h 55 m a.m., l.m.t. is N.16°02'W.; the angle thus determined gives the mag. decl. 16°02'E.</p> <p>Note Before Commencing the subdivision of this township I proceed to retrace and if necessary resurvey the bdy's of the township adjoining the new work.</p> <p>From the cor. of secs. 1, 6, 7, and 12, on E.bdy. of Tp., heretofore described I run</p> <p>South, on a retrace line bet. secs. 7 and 12.</p> <p>Over mountainous land; through heavy cedar and pinon pine timber; and scattering sage brush.</p> <p>Asc.</p> <p>1.10 Top of spur, 10 ft. above cor., bears E. and W.</p> <p>Desc.</p> <p>3.30 Bottom of hollow, 55 ft. below ridge, course W.</p> <p>Asc.</p> <p>6.00 Top of spur, 50 ft. above hollow, bears E. and W.</p> <p>Desc.</p> <p>8.60 Bottom of hollow, 35 ft. below spur, course W.</p> <p>Asc.</p> <p>14.80 Top of spur, 40 ft. above hollow, bears E. and W.</p> <p>Desc.</p> <p>24.00 Bottom of hollow, 20 ft. below spur, course SW.</p> <p>Asc.</p>
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Retracement East bdy.T.32 S., R.9 W.-Continued.

Chains	
25.50	Top of spur, 25 ft. above hollow, bears NE and SW. Desc. for 1/2 sec. cor. on solid rock, mdkd. and witnessed as follows: Asc.
31.60	Bottom of hollow, 35 ft. below spur, course SW.
35.10	Top of spur, 50 ft. above hollow, bears NE and SW. Desc. for 1/2 sec. cor. on solid rock, mdkd. and witnessed as follows: Asc.
36.80	Bottom of hollow, 35 ft. below spur, course SW.
40.67	Fall 154 lks.E. of the $\frac{1}{2}$ sec.cor.betsecs.7 and 12, which is a gray sandstone, 8x15x6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, The cor.stone is partly decayed.; therefore I destroy the old cor.and re-establish it in the same place as follows: Set an iron post, 3 ft.long, 1 in.in dia., 18 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 12 in W half and S 7 in E half; i leave the old trees as they are the bearings and distances are as follows: A pinon pine, 8 ins.dia., bears N.45°E., 20 lks. dist..mkd. $\frac{1}{2}$ S 7 B T. A pinon pine, 12 ins.dia., bears S.75°30'W., 80 lks. dist..mkd. $\frac{1}{2}$ S 12 B T.
42.10	Top of spur, 35 ft. above hollow, bears NE and SW. Desc.
46.00	Bottom of hollow, 50 ft. below spur, course SW. Asc.
60.00	Top of spur, 60 ft. above hollow, bears N.65°E. and S.65°W. Desc.
70.00	Bottom of hollow, 70 ft. below spur, course S.10°E. Asc.
73.40	Top of spur, 55 ft. above hollow, bears N.70°W. and S.70°E. Desc.
80.15	Bottom of hollow, 85 ft. below spur, course E. Asc.

Retracement East bdy.T.32 S., R.9 W.-Continued.

Chains

- 80.35 Fall 227 lks.E.of the cor.of secs.7,12,13, and 18,which is a granite stone,10x6x~~6~~ ins.,above ground,firmlly set, and mkd.and witnessed as described by the surveyor general. The cor.stone is poorly mkd.I destroy the old cor.and re-establish it in the same place as follows:
Set an iron post,3 ft.long,3 ins.in dia.,20 ins.in the ground, on solid rock, and surrounded by a mound of earth and stone,for cor.of secs.7,12,13, and 18,mkd.on brass cap
T 32 S in N half; R 9 W S 12 in NW.
R 8 W S 7 in NE.
S 18 in SE.; and on the SW side,not off dist..mkd.T 32 S R 8 W S 13 B T.
A cedar,36 ins.dia.,bears N.45°E.,36 lks.
dist..mkd.T 32 S R 8 W S 18 B T.
A cedar,22 ins.in dia.,bears S.5°E.,20 lks.
dist..mkd.T 32 S R 9 W S 13 B T.
A pinon pine,5 ins.dia.,bears S.72°W.,33 lks.
dist..mkd.T 32 S R 9 W S 12 B T.
A cedar,8 ins.dia.,bears N.46°W.,37 lks.
dist..mkd.T 32 S R 9 W S 12 B T.
The course of the north half of this mile is therefore S.2°10'W.,40.70 chs. and the South half S.1°03'W.,39.69 chs/
Land,rough and rocky over numerous small ridges and hollows sloping and draining westerly about one half mile into a main hollow which runs southward.
Soil,black loam about 6 ins.deep,mixed with rock and gravel:Subsoil,gravel and rock.
Timber,cedar and pinon pine.
Undergrowth,sage brush.
Good grass for grazing.
Mountainous or heavily timbered land,80.39 chs.

10 a.m., Dec. 6, 1910.

West bdy. T.32 S., R.9 W.

3Chains

W.bdy.T.32 S.,R.9 W.

December 7, 1910, At 8 h 51 m a.m., l.m.t., I set off $37^{\circ}59'N.$ on the lat.arc; $22^{\circ}32'S.$, on the decl.arc; and determine a meridian with the solar, at the cor.of Tps.32 and 33 S., Rs.9 and 10 W., heretofore described.

Note: The Special Instructions say that if a new cor.of Tps.32 and 33 S., Rs.9 and 10 W. is established; the west and North Edys. of Tp.32 S., R.9 W., shall be resurveyed regardless of the old cor.; therefore I run

North, bet.secs.31 and 36.

Over rolling mountainous land; through scattering cedar and pinon pine timber and dense sage brush.

Desc, gradually.

12.30 Wash, 50 lks.wide, 6 ft.deep, in swale, 20 ft.below cor., course W.

Asc gradually.

27.00 Wood road, bears NW. and SE.

40.00 Top of ridge, 50 ft.above swale, bears E. and W.

Set an iron post, 3 ft.long, 1 in.in dia., 19 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ Sec.cor., mkd.on brass cap $\frac{1}{4}$ S 36 in W half and S 31 in E half; from which

A pinon pine, 4 ins.dia., bears N. $49^{\circ}E.$, 76 lks.
dist..mkd. $\frac{1}{4}$ S 31 B T.

A pinon pine, 14 ins.dia., bears S. $29^{\circ}W.$, 69 lks.
dist..mkd. $\frac{1}{4}$ S 36 B T.

The old cor bears north 70 lks. and west 30 lks.; it is a granite stone, 24x9x9 ins., lying on surface and mkd.and witnessed as described by the surveyor general. I destroy the old cor.

78.00 Bottom of hollow, 70 ft.below ridge, course W.
Asc.

80.00 Set an iron post, 3 ft.long, 3 ins.in dia., 16 ins.in the

West bdy.T.32 S., R.9 W.-Continued. On N. side West

Chains

ground, on hard pan, and surrounded by mound of earth and stone, for cor. of secs. 25, 30, 31, and 36, mkd. on brass cap

T 32 S in N half

R 10 W S 25 in NW.

R 9 W S 30 in NE.

S 31 in SE.; and

S 36 in SW. quadrants; from which

A cedar, 5 ins. dia., bears N.18° E., 260 lks.

dist..mkd.T 32 S R 9 W S 30 B T.

A cedar, 8 ins. dia., bears S.29° E., 127 lks.

dist..mkd.T 32 S R 9 W S 31 B T.

A cedar, 6 ins. dia., bears S.81°30' W., 266 lks.

dist..mkd.T 32 S R 10 W S 36 B T.

A cedar, 8 ins. dia., bears N.72° W., 202 lks.

dist..mkd.T 32 S R 10 W S 25 B T.

The old cor. is 123 lks. N. and 75 lks. W. of this point. It is a granite 25x11x7 ins., mkd. and witnessed as described by the surveyor general. I destroy the old cor.

Land, rolling mountainous with gradual westerly slope and drainage.

Soil, sandy loam about 18 ins. deep, dry and lean; 3rd rate. Subsoil, gravel.

Timber, scattering cedar and pinon pine.

Undergrowth, dense sage brush.

A very little grass.

Mountainous land, or land covered with dense undergrowth, 80.00 chs.

Over rolling mountainous land; through scattering cedar and Pinon pine timber and dense sage brush.

Asc. : 6.00 Top of ridge, 40 ft. above sec.cor., bears NE and SW.

West bdy.T.32 S., R.9 W.-Continued.

Chains	Desc.
17.50	Bottom of hollow, 35 ft. below ridge, course W. Asc.
21.80	Top of ridge, 50 ft. above hollow, bears NE and SW. Desc.
28.10	Wash, 100 lks. wide, 10 ft. deep, in bottom of hollow, 40 ft. below ridge, course SW. Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 25 in W half and S 30 in E half; dig pits, 18x18x 12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. No trace of old cor.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 19, 24, 25, and 30, mkd. on brass cap T 32 S in N. half R 10 W S 24 in NW. R 9 W S 19 in NE. S 30 in SE.; and S 25 in SW. quadrants; from which A cedar, 4 ins. dia., bears N. 37° E., 314 lks. dist.. mkd. T 32 S R 9 W S 19 B T. A cedar, 4 ins. dia., bears S. 32° E., 305 lks. dist.. mkd. T 32 S R 9 W S 30 B T. A cedar, 5 ins. dia., bears S. 68° W., 59 lks. dist.. mkd. T 32 S R 10 W S 25 B T. A cedar, 8 ins. dia., bears N. 43° W., 65 lks. dist.. mkd. T 32 S R 10 W S 24 B T. No trace of old cor. Land, rolling mountains with gradual slopes. Soil, sandy. Timber, scattering cedar and pinon pine. Undergrowth, sage brush. Very little grass. Mountainous land, or land covered with dense undergrowth

West bdy. T.32 S., R.9 W.-Continued.

Chains

ground; on hard pan, and surrounded by mound of earth and stone, for cor. of secs. 25, 30, 31, and 36, mkd. on brass cap

T 32 S in N half

R 10 W S 25 in NW.

R 9 W S 30 in NE.

S 31 in SE.; and

S 36 in SW. quadrants; from which

A cedar, 5 ins. dia., bears N. 18° E., 260 lks.

dist.. mkd. T 32 S R 9 W S 30 B T.

A cedar, 8 ins. dia., bears S. 29° E., 127 lks.

dist.. mkd. T 32 S R 9 W S 31 B T.

A cedar, 6 ins. dia., bears S. $81^{\circ}30'$ W., 266 lks.

dist.. mkd. T 32 S R 10 W S 36 B T.

A cedar, 8 ins. dia., bears N. 72° W., 202 lks.

dist.. mkd. T 32 S R 10 W S 25 B T.

The old cor. is 123 lks. N. and 75 lks. W. of this point. It is a granite 25x11x7 ins., mkd. and witnessed as described by the surveyor general. I destroy the old cor.

Land, rolling mountainous with gradual westerly slope and drainage.

Soil, sandy loam about 18 ins. deep, dry and lean; 3rd rate.

Subsoil, gravel.

Timber, scattering cedar and pinon pine.

Undergrowth, dense sage brush.

A very little grass.

Mountainous land, or land covered with dense undergrowth, 80:00 chs.

North, bet. secs. 25 and 30.

Over rolling mountainous land; through scattering cedar and Pinon pine timber and dense sage brush.

Asc.

6.00 Top of ridge, 40 ft. above sec. cor., bears NE and SW.

West bdy.T.32 S., R.9 W.-Continued.

Chains	Desc.
17.50	Bottom of hollow, 35 ft. below ridge, course W. Asc.
21.80	Top of ridge, 50 ft. above hollow, bears NE and SW. Desc.: no sign of old cor. or road. Washed out by rain.
28.10	Wash, 100 lks. wide, 10 ft. deep, in bottom of hollow, 40 ft. below ridge, course SW. Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 25 in W half and S 30 in E half; dig pits, 18x18x12 ins. N. and S. of post 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. No trace of old cor.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 19, 24, 25, and 30, mkd. on brass cap T 32 S in N. half R 10 W S 24 in NW. R 9 W S 19 in NE. S 30 in SE.; and S 25 in SW. quadrants; from which A cedar, 4 ins. dia., bears N. 37° E., 314 lks. dist.. mkd. T 32 S R 9 W S 19 B T. A cedar, 4 ins. dia., bears S. 38° E., 305 lks. dist.. mkd. T 32 S R 9 W S 30 B T. A cedar, 5 ins. dia., bears S. 68° W., 59 lks. dist.. mkd. T 32 S R 10 W S 25 B T. A cedar, 8 ins. dia., bears N. 43° W., 65 lks. dist.. mkd. T 32 S R 10 W S 24 B T. No trace of old cor. Land, rolling mountains with gradual slopes. Soil, sandy. Timber, scattering cedar and pinon pine. Undergrowth, sage brush. Very little grass. Mountainous land, or land covered with dense undergrowth

West bdy. T.32 S., R.9 W.-Continued.

- Chains 80.00 chs.
 Description, scattered timber, 11 sec., non coniferous land, V.
 North, bet. secs. 19. and 24. elevation 08, eight to 100 ft. 08.18
 Over rolling mountainous land; through scattering cedar and
 and pinon pine timber, and dense sage brush. U. daily 01.83
 Asc.
 6.00 Top of ridge, 30 ft. above sec. cor., bears N.15°E. and S.15°
 W. and 08, with timber, 11 sec., along road, for 00.00
 Desc. gradually. sand soil, 00.00. sec. 19. bears
 23.30 Enter heavy timber, bears NE and SW. of N. 100 ft. 08. E. 00
 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the
 ground, on rock, and surrounded by mound of earth and stone
 for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 24 in W half
 and S 19 in E half; from which R. goes north on sec. 19. 00.00
 A cedar, 8 ins., bears N.68°E., 40 lks.
 dist.. mkd. $\frac{1}{4}$ S 19 B T. 00.00
 A cedar, 6 ins. dia., bears S.23°W., 43 lks.
 dist.. mkd. $\frac{1}{4}$ S 24 B T. 00.00
 58.30 Wood road, bears NW and SE. 00.00
 65.00 Leaves heavy and enter scattering timber, bears E. and W.
 80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 16 ins. in the
 ground, on rock, and surrounded by mound of earth and
 stone, for cor. of secs. 13, 18, 19, and 24, mkd. on brass cap
 T 32 S in N half 08. E. 00.00
 R 10 W S 13 in NW. and C. 00.00
 R 9 W S 18 in NE. 00.00
 S 19 in SE.; and 00.00. sec. 0. takes A
 S 24 in SW. quadrants; from which
 A cedar, 8 ins. dia., bears N.12°E., 72 lks.
 dist.. mkd. T 32 S R. 9 W S 18 B T. 00.00
 A cedar, 10 ins. dia., bears S.74°E., 55 lks.
 dist.. mkd. T 32 S R. 9 W S 19 B T. 00.00
 A cedar, 14 ins. dia., bears S.44°W., 276 lks.
 lks. dist.. mkd. T 32 S R. 10 W S 24 B T. 00.00

West bdy.T.32 S.,R.9.W.-Continued.

Chains

A cedar,10 ins.dia.,bears N.53°W.,76 lks.

dist..mkd.T 32 S R 10 W S 13 B T.

No trace of the old cor.could be found.

Land,rolling hills

Soil,sandy loam mixed with rock;2nd rate about 1 ft.deep,
subsoil,gravel.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Mountainous or heavily timbered land,or land covered
with dense undergrowth,80.00 chs.

December 7,1910:At this cor.I set off 22° 34' S.,on the
decl.arc;and at 11 h 51 m a.m.,i.m.t.,I observe the sun
on the meridian,the resulting lat.is 38°02'N.,which is
the proper lat.nearly.

North,betsecs.13 and 18.

Over rolling hills and hollows;through scattering cedar
and pinon pine timber and dense undergrowth.

Desc.gradually.

18.80 Wood road,bears E.and W.

40.00 Set an iron post,3 ft.long,1 in.in dia.,16 ins.in the
ground,on solid rock, and surrounded by mound of earth and
stone,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 13 in W half
and S 18 in E half;and raise a mound of stone,2 ft.base,
 $1\frac{1}{2}$ ft.high,W.of cor.

No old cor.found .

63.00 Wash,30 lks.wide,3 ft.deep,in bottom of hollow,100 ft.below
sec.cor.course SW.

Asc.gradually.

70.00 Wood road,bears NE and SW.

80.00 Set an iron post,3 ft.long,3 ins.in dia.,19 ins.in the
ground,on solid rock, and surrounded by mound of earth and
stone,for cor.of secs.7,12,13, and 18,mkd.on brass cap
T 32 S in N half.

West bdy.T.32 S., R.9 W.—Continued. P.M., 8 MR. 1900 2000

	Chains	Set an iron post, 3 ft. long, 1 $\frac{1}{2}$ ins. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 12° in NW. quadrant of sec. 12, and $\frac{1}{4}$ S 7° in NE. quadrant of sec. 7, and $\frac{1}{4}$ S 18° in SE. quadrant of sec. 18, and $\frac{1}{4}$ S 13° in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
		No trace of the old cor. could be found.
		Land, rolling mountainous with gradual southwest slope.
		Soil, sandy loam about 1 ft. deep, mixed with rock, gravel subsoil, no soil boundary visible, no vegetation.
		Timber, very scattering cedar and pinon pine.
		Undergrowth, dense sage brush.
		A very little grass.
		Mountainous land, or land covered with dense undergrowth, 80.00 chs.
		North, bet. secs. 7 and 12. 80 lks. wide, 30 ft. deep, desc.
		Over mountainous land; through dense sage brush and scattering cedar and pinon pine timber, only rocks, trees, and shrubs, asc. gradually.
40.00		Set an iron post, 3 ft. long, 1 $\frac{1}{2}$ ins. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 12° in W half and $\frac{1}{4}$ S 7° in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. a ridge back, and $\frac{1}{4}$ S 12° in W half.
		No trace of the old cor. could be found.
47.70		Top of ridge, 40 ft. above sec. cor., bears NE and SW.
		Desc. gradually, elev. at 4000 ft., 3500 ft., 3000 ft., 2500 ft.
63.00		Wash, 40 lks. wide, 3 $\frac{1}{2}$ ft. deep, in bottom of hollow, 75 ft. below ridge, course SW.
		Asc. gradually.
80.00		Set an iron post, 3 ft. long, 1 $\frac{1}{2}$ ins. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 1, 6, 7, and 12, mkd. on brass cap

West bdy.T.32 S.,R.9 W.-Continued.

Chains	T 32 S in N half. R 10 W S 1 in NW. R 9 W S 6 in NE. S 7 in SE.;and S 12 in SW.quadrants;and raise a mound of stone, 2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor. No trace of the old cor.could be found. Land,rolling ridges and hollows;sloping gradually to the southwest. Soil,sandy loam mixed with some gravel about $1\frac{1}{2}$ ft.deep, Subsoil,gravel. Timber,very scattering cedar and pinon pine. Undergrowth,sage brush. A very little grass . Mountainous land;or land covered with dense undergrowth, 80.00 chs. Over mountainous land;through dense sage brush and scattering timber. North,betsecs.1 and 6. 20.00 Tolp of ridge,40 ft.above sec.cor.,bears NE and SW. Desc.gradually. 40.00 Set an iron post,3 ft.long,1 in.in dia.,16 ins.in the ground,on solid rock, and surrounded by mound of earth and stone,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 1 in W half and S 6 in E half;dig pits,18x18x12 ins.,N.and S.of post,3 ft.dist..and raise a mound of earth $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high,W.of cor.. No trace of the old cor.could be found. 47.50 Bottom of hollow,75 ft.below ridge,course SW. ASC. 75.00 Road from Paragoonah to Milford,bears NW and SE.
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West bdy. T. 32 S., R. 9 W.-Continued.

Chains
80.00 Set temp.cor.of Tps.31 and 32 S.,Rs.9 and 10 W.,
Note:Later this cor.was set at 86.10 chs. and for descrip-
tion of same see notes of N.bdy.of Tp.
Note:I search diligently for the old Tp.cor.but fail to
find any trace of it.
Land, mountainous.
Soil, sandy loam about 1 ft.deep;mixed with rock;gravel
subsoil.
Timber, scattering cedar and pinon pine.
Undergrowth, dense sagebrush.
Mountainous land, or land covered with dense brush 80.00
December 7, 1910.
Resurvey
North bdy.T.32 S.,R.9 W.
December 8, 1910:At 8 h 52 m a.m.,l.m.t.,I set off $38^{\circ}04'N$
on the lat.arc; $22^{\circ}39'S.$,on the decl.arc;and determine a
meridian with the solar,at the cor.of Tps.31 and 32 S.,Rs
8 and 9 W.,heretofore described.
Thence I run
West, on a random line along north bdy.of Tp.,setting
temp. $\frac{1}{4}$ sec.and sec.cors.at intervals of 40.00 chs.;and
at 480.13 chs.Intersect W.bdy.of Tp.,6.10 chs.North of the
temp.cor.of Tps.31 and 32 S.,Rs.9 and 10 W. At the inter-
section I set an iron post,3 ft.long,3 ins.in dia.,20 ins.in the
ground, on solid rock, and surrounded by mound of earth and
stone,for cor.of Tps.31 and 32 S.,Rs.9 and 10 W.;mkd.on
brass cap
T 31 S in N half
T 32 S in S half.
R 10 W S 36 in NW.
R 9 W S 31 in NE.
R 9 W S 6 in SE.;and
R 10 W S 1 in SW.quadrants;from which
the section was run,beginning at the cor.of Tps.31 and 32 S.,Rs.9 and 10 W.

Survey North bdy. T. 32 S., R. 9 W. -Continued.

Chains

- A cedar, 4 ins. dia., bears N. 35° E., 52 lks.
 dist.. mkd. T 31 S R 9 W S 31 B. T.
 A cedar, 8 ins. dia., bears S. 18° E., 60 lks.
 dist.. mkd. T 32 S R 9 W S 6 B. T.
 A cedar, 16 ins. in dia., bears S. 25° W., 78 lks.
 dist.. mkd. T 32 S R 10 W S 1 B. T.
 A cedar, 5 ins. dia., bears N. 23° W., 44 lks.
 dist.. mkd. T 31 S R 10 W S 36 B. T.

December 8, 1910.

December 9, 1910. At 8 h 52 m a.m., l.m.t., I set off 38°04' N., on the lat.arc; 22°45' S., on the decl.arc; and determine a meridian with the solar, at the cor.of Tps. 31 and 32 S., Rs. 9 and 10 W.;

Thence I run
 East, on a true line bet. secs. 6 and 31. and
 Over rolling mountainous land; through scattering cedar and
 pinon pine timber and dense sage brush.

Desc.

- 16.00 Wash, 30 lks. wide, 6 ft. deep, in bottom of hollow, 60 ft.
 below cor., course S.W. Road bears NW. and SE.

Asc.

- 39.00 Top of ridge, 100 ft. above hollow, bears N. and S.

Desc.

- 40.13 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone for $\frac{1}{2}$ sec.cor.. mkd. on brass cap $\frac{1}{2}$ S 31 in N half
 and S 6 in S half; from which

A cedar, 6 ins. dia., bears N. 54° E., 115 lks.

dist.. mkd. $\frac{1}{2}$ S 31 B. T.

A cedar, 5 ins. dia., bears S. 22° E., 76 lks.

dist.. mkd. $\frac{1}{2}$ S 6 B. T.

Resurvey North bdy.T.32 S., R.9 W.-Continued.

	Chains
62.50	Wash, 40 lks. wide, 8 ft. deep, in bottom of hollow, 100 ft. below ridge, course S. 21° E. 16' high. Soil Asc. gradually. Desc. gradually, with silt and sand.
70.50	Top of ridge, 40 ft. above hollow, bears N. and S. Desc. gradually, with silt and sand.
80.13	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 6, 31, and 32, mkd. on brass cap T 31 S S 31 in NW. 16' high, thin R 9 W S 32 in NE. R 9 W S 5 in SE.; and T 32 S S 6 in SW. quadrants; from which A cedar, 10 ins. dia., bears N. 8° 30' E., 140 lks. dist.. mkd. T 31 S R 9 W S 32 B T.
150.00	Note, same cor. A cedar, 9 ins. dia., bears N. 52° W., 69 lks. dist.. mkd. T 31 S R 9 W S 31 B T. odd sec., N. No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Not trace of the old cor. could be found. Land, rolling, mountainous, with a general slope and drainage SW. towards foreground; land east of junction gall for more Soil, sandy loam mixed with sandstone boulders; with a rocky and gravelly subsoil. Timber, scattering cedar and pinon pine. Undergrowth, sage brush. No grass. Mountainous land, or land covered with dense undergrowth, 80.13 chs.
15.00	On hill, 50 ft. above cor., 16' high, with silt and sand. Slope of hill to bottom of hollow, 100 ft. high, thin. East, on a true line bet. secs. 5 and 32. Over rolling mountainous land; through scattering cedar and pinon pine timber and dense sage brush. Desc. Bottom of hollow, 50 ft. below cor., course S. 70° W. Asc. gradually.

Resurvey North Edy. T.32 S., R.9 W.-Continued.

Chains

40.00

Set an iron post, 3 ft. long, 1 in. in dia., 19 ins. in the ground, on bed rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor., mkd. on brass cap. $\frac{1}{4}$ S 32 in N half and S 5 in S half; from which

A cedar, 5 ins. dia., bears N. 61° W., 125 lks.

dist.. mkd. $\frac{1}{4}$ S 32 B.T.

A cedar, 4 ins. dia., bears S. 20° W., 120 lks.

dist.. mkd. $\frac{1}{4}$ S 5 B.T.

65.00

Top of ridge, 50 ft. above hollow, bears NE and SW.

Desc.

80.00

Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 4, 5, 32, and 33, mkd. on brass cap.

T 31 S S 32 in NW.

R 9 W S 33 in NE.

R 9 W S 4 in SE.; and

T 32 S S 5 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, w. of cor.

No trace of the old cor. could be found.

Land, rolling ridges and hollows. General slope southwest.

Soil, red sandy loam; mixed with small sandstone boulders and gravel. Gravelly subsoil.

Timber, very scattering cedar and pinon pine.

Undergrowth, dense sage brush.

No grass.

Mountainous land, or land covered with dense undergrowth,

80.00 chs.

December 9, 1910: At this cor. I set off 22°47'S., on the decl. arc; and at 11 h 52 m a.m., 1 m.t., I observe the sun on the meridian; the resulting lat. is 38°04' N., which is the proper lat. nearly.

East, on a true line bet. secs. 4 and 33.

Resurvey North bdy. T.32 S., R.9 W.-Continued.

Chains	Over mountainous land; through dense sage brush and very scattering cedar and pinon pine timber.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd.on brass cap $\frac{1}{4}$ S 33 in N half and S 4 in S half; from which A cedar, 6 ins. dia., bears N.4°W., 40 lks. dist..mkd. $\frac{1}{4}$ S 33 B T.
	A cedar, 7 ins. dia., bears S.4°E., 120 lks. dist..mkd. $\frac{1}{4}$ S 4 B T.
50.15	No trace of old cor. S.30°E., 31 S, from which are 402 lks. Road, bears N. and S. Enter heavy timber, bears N. and S.
53.00	Begin abrupt ascent, bears N. and S.
71.50	Top of ridge, 250 ft. above $\frac{1}{4}$ sec.cor., bears N. and S. Desc.
80.00	Set an iron post, 3 ft. long, 3 ins. in the dia., 15 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor.of secs.3, 4, 33, and 34, mkd.on brass cap T 31 S S 33 in NW. R 9 W S 34 in NE. R 9 W S 3 in SE.; and T 32 S S 4 in SW.quadrants; from which A cedar, 6 ins. dia., bears N.33 °E., 36 lks. dist..mkd.T 31 S R 9 W S 34 B T.
	A cedar, 6 ins. dia., bears S.8°W., 28 lks. dist..mkd.T 32 S., R.9 W S 3 B T.
	A pinon pine, 4 ins. dia., bears S.23°W., 45 lks. dist..mkd.T 32 S R 9 W S 4 B T.
	A cedar, 6 ins. dia., bears N.8°W., 25 lks. dist..mkd.T 31 S R 9 W S 33 B T.
	Not trace of the old cor.
	Land, W.53.00 chs. is rolling mountainous land, covered with dense sage brush and very scattering cedar timber, with a general slope and drainage southwest. Soil, loose sandy loam

Resurvey N.E. bdy. T.32 S., R.9 W.-Continued.

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|--------|---|
| Chains | mixed with gravel about 1 ft. deep.on gravel subsoil.No grass. East 27.00 chs. Over steep rough mountain covered with heavy cedar and pinon pine timber and scattering sage brush. Soil, red clay loam mixed with rock; about 12 ins. deep. Good grass for grazing. |
| | Mountainous or, heavily timbered land ;or land covered with dense undergrowth, 80.00 chs. |

December 9, 1910.

December 10, 1910: At 8 h 53 m a.m., l.m.t., I set off 38°04' N., on the lat.arc; 22°51'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.3,4,33, and 34.

Thence I run
East, on a true line betsecs.3 and 34.

Over mountainous land; through heavy cedar and pinon pine timber and scattering undergrowth.

Desc.

2.40 Bottom of hollow, 100 ft. below cor., course S.

Asc.

9.20 Top of ridge, 100 ft. above hollow, bears N. and S.

Desc.

38.50 Foot of descent, 300 ft. below ridge, bears N. and S.

Enter broad swale.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.mkd.on brass cap $\frac{1}{4}$ S 34 in N half and S 3 in S half; from which

A cedar, 5 ins.dia., bears N.10°E., 24 lks.

✓ dist..mkd. $\frac{1}{4}$ S 34 B T.

A pinon pine, 5 ins.dia., bears S.5°E., 38 lks.

✓ dist..mkd. $\frac{1}{4}$ S 3 B T.

Resurvey North bdy.T.32 S., R.9 W.-Continued.

Chains	No trace of the old cor. could be found.
54.00	Leave bottom of hollow, bears NE and SW.
	Asc. to ridge, mixed soil, fine sage brush, some
74.50	Top of ridge, 250 ft. above hollow, bears NW and SE.
	Desc.
78.80	Bottom of hollow, 100 ft. below ridge, course N.
	Asc.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 2, 3, 34, and 35, mkd. on brass cap
	T 31 S S 34 in NW.
	R 9 W S 35 in NE.
	R 9 W S 2 in SE.; and T 32 S R 9 W S 3 in SW. quadrants; from which
	A pinon pine, 5 ins. dia., bears N.36°E., 4 lks.
	✓ dist.. mkd. T 31 S R 9 W S 35 B T.
	A cedar, 6 ins. dia., bears S.39°E., 29 lks.
	✓ dist.. mkd. T. 32 S .R 9 W S 2 B T.
	A pinon pine, 4 ins. dia., bears S.43°W., 16 lks.,
	✓ dist.. mkd. T 32 S R 9 W S 3 B T.
	A pinon pine, 4 ins. dia., bears N.40°W., 12 lks.
	dist.. mkd. T 31 S R 9 W S 34 B T.
	No trace of the old cor. could be found.
	Land, rough and rocky mountains.
	Sand loam soil, mixed with sandstone boulders; Subsoil is hard and rocky.
	Timber, heavy cedar and pinon pine on entire mile.
	Undergrowth, sage brush.
	A very little grass.
	Mountainous or heavily timbered land, 80.00 chs.
	Asc.

Resurvey North bdy. T.32 S., R.9 W.-Continued.

Chains	
	Asc.
2.00	Leave heavy and enter scattering timber, bears N. and S. Enter dense sage brush.
5.00	Top of spur, 200 ft. above hollow, bears N. and S. Desc.
9.90	Bottom of hollow, 100 ft. below spur, course N.10°W. Asc.
18.00	Top of ridge, 125 ft. above hollow, bears NW. and SE. Desc.
32.40	Bottom of hollow, 100 ft. below ridge, course N. Asc.
39.00	Top of divide between Parowan and Cedar Valleys, 150 ft. x above hollow, bears N. and S. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 35 in N half and S 2 in S half; from which
	A cedar, 10 ins. dia., bears N.35°E., 213 lks. dist.. mkd. $\frac{1}{4}$ S 35 B T.
	A cedar, 5 ins. dia., bears S.44°E., 72 lks. dist.. mkd. $\frac{1}{4}$ S 2 B T.
40.50	No old cor. Enter heavy cedar and pinon pine timber, bears N. and S.
70.00	Bottom of hollow, 300 ft. below ridge, course S. Asc.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone for cor. of secs. 1, 2, 35, and 36, mkd. on brass cap T 31 S S 35 in NW. ✓ R 9 W S 36 in NE. ✓ R 9 W S 1 in SE.; and ✓ T 32 S S 2 in SW. quadrants; from which
	A pinon pine, 16 ins. dia., bears N.53°E., 55 lks. dist.. mkd. T 31 S R 9 W S 36 B T.
	A cedar, 10 ins. dia., bears S.20°E., 2 lks.

Resurvey North Bdy.T.32 S., R.9 W.-Continued:

Chains	dist..mkd.T 32 S R 9 W S 1 B T. A pinon pine, 16 ins.dia., bears S.6°W., 40 lks. dist..mkd.T 32 S R 9 W S 2 B T. A cedar, 8 ins.dia., bears N.69°W., .8 lks. dist..mkd.T 31 S R 9 W S 35 B T.
	No trace of the old cor.
	Land, rough and mountainous.
	Soil, sandy loam mixed fine gravel.hard rocky subsoil.
	Timber, cedar and pinon pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth, 80.00 chs.
	December 10, 1910:At this cor.I set off 22°58'S., on the decl arc;and at 11 h 58' M.a.m., l.m.t.I observe the sun on the meridian.the resulting lat.is 38°04'N.,which is the proper lat.nearly.
7.30	East, on a true line bet.secs.1 and 36.
10.75	Over mountainous land;through heavy cedar and pinon pine timber and scattering sage brush.
15.00	Asc.
30.65	Top of ridge,80 ft.above cor.,bears N.and S.
	Desc.
40.00	Bottom of swale,90 ft.below ridge,course S.
	Asc.
	Top of spur,70 ft above hollow,bears N.and S.
	Desc.
	"Wood road,bears NE and SW.
	Bottom of hollow,110 ft.below ridge,course SW.
	Asc.
	Set an iron post,3 ft.long,1 in.in dia.,24 ins.in the ground,for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 36 in N half

Resurvey North bdy. T. 32 S., R. 9 W. -Continued.

Chains and S. 1 in S half; from which job occurred	A pinon pine, 5 ins. dia., bears N. 25° 30' W., 28 lks. dist. m. kd. $\frac{1}{4}$ S 36 B T.
	A pinon pine, 5 ins. dia., bears S. 15° E., 15 lks. dist. m. kd. $\frac{1}{4}$ S 1 B T.
	No trace of old cor.
46.00	Top of ridge, 120 ft. above hollow, bears NE and SW.
	Desc.
58.80	Bottom of hollow, 80 ft. below ridge, course S.
	Asc.
64.00	Top of ridge, 100 ft. above hollow, bears NE and SW.
	Desc.
71.80	Bottom of hollow, 120 ft. below ridge, course SW.
	Asc.
79.00	Top of ridge, 150 ft. above hollow, bears NW and SE.
	Desc.
80.00	The cor. of Tps. 31 and 32 S., Rs. 8 and 9 W., heretofore described.
80.00	Land, rough and rocky ridges and hollows. Soil, sandy and clay loam mixed with gravel and rock; 2nd rate. Subsoil, gravel and rock. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass.
	Mountainous or heavily timbered land, 80.00 chs.

December 10, 1910.

John R Stewart

Instrumentman G.L.O.

Boundaries of T.32 S., R.9 W.-Continued. G.S.T. and Notes

Latitudes, departures, and closing errors.

Line designated	Course	dist.	Latitudes	Departures
W.bdy.T.32 S.,R.9 W. North	N. 48° 10' E.	486.10	486.10	E. W.
N.bdy.T.32 S.,R.9 W. East	S. 48° 13' E.	480.13	480.13	
E.bdy.T.32 S.,R.9 W. South	S. 85° 24' W.	85.24	85.24	
E.bdy.T.32 S.,R.9 W. S.2°10'W.	S. 40.70	40.70	40.67	1154
E.bdy.T.32 S.,R.9 W. S.1°03'W.	S. 39.69	39.69	39.69	.73
S.bdy.sec.12 Sub.				.00A
T.32 S.,R.9 W. N. West	S. 79.86	79.86	79.86	
E.bdy.sec.14 Sub.				.00A
T.32 S.,R.9 W. South	S. 80.20	80.20	80.20	
E.bdy.sec.23 Sub.				.00A
T.32 S.,R.9 W. South	S. 40.05	40.05	40.05	.00A
E.bdy.sec.23 Sub.				.00A
T.32 S.,R.9 W. S.0°13'W.	S. 39.70	39.70	39.70	.15
S.bdy.sec.26 Sub.				.00A
T.32 S.,R.9 W. S. 89°52'W.	S. 40.12	40.12	40.09	G.T.O.C.G. 40.11
S.bdy.sec.26 Sub.				.00A
T.32 S.,R.9 W. S. 89°54'W.	S. 40.08	40.08	40.07	40.08
E.bdy.sec.27 Sub.				.00A
T.32 S.,R.9 W. S. 89°44'E.	S. 80.13	80.13	80.13	.10
E.bdy.sec.34 Sub.				.00A
T.32 S.,R.9 W. S. 2°56'W.	S. 41.05	41.05	41.00	.10
S.bdy.T.32 S.,R.9 W. S.89°17 W.	S. 39.25	39.25	39.49	.24
S.bdy.T.32 S.,R.9 W. N.87°45'W.	S. 38.62	38.62	38.51	38.59
S.bdy.T.32 S.,R.9 W. West		238.51		238.51
Convergency				.49
Totals		487.62	487.33	480.72
			487.33	480.72
Error in lat.			.29	
Error in dep.				.20

General Description.

For general description see notes of Subdivision of Tp.

John R Stewart

December 10, 1910.

Instrumentman G.L.O.

U.S. Instrumentman
FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John R. Stewart

U.S. Instrumentman, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of

Retracement E.bdy. and Sur.N. and W.bdys. T.32 S., R.9 W. S.L.B. & M., Utah, showing the respective capacities in which they acted:

R. Bert Carter /	, Chainman.
Verne O. Nelson /	, Chainman.
Isaac R. Hayes /	, Moundman.
Ruban W. Riley /	, Moundman.
	, Axman.
	, Axman.
	, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John R. Stewart U.S. Instrumentman

in surveying all those parts or portions of the Retracement E.bdy. Survey N. and W.bdys.

T.32 S., R.9 W.

of the Salt

Lake Basc. and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

R. Bert Carter	, Chainman.
Verne O. Nelson	, Chainman.
Isaac R. Hayes	, Moundman.
Ruban W. Riley	, Axman.
	, Axman.
	, Axman.
	, Flagman.

Subscribed and sworn to before me this 20th

day of December, 1910 } {

cccccc
8 SEAL 8
cccccc

John R. Stewart
U. S. Instrumentman

FINAL OATH OF UNITED STATES SURVEYOR.

John S. Cleary *Editorial Contributions*

Utah
Aug. 1816. I have well, faithfully, and truly, in my present position, and by virtue hereof, by the Commission issued by the United States Surveyor General of Utah, No. 7332, do swear to observe the Manual of Surveying Instructions, and the laws and regulations, and all other parts or provisions of Retracement Survey and Survey of Land.

and the State of Utah, which are represented by
the State Surveyor, have been employed by me and under my direction; and I do further advise
that the Bureau of Geological Survey has been established and perpetuated in strict accordance
with the original recommendations, and the special written instructions of the United States Surveyor
General for the State of Utah, and is the specific organization provided in the field system, and
is continuing a series of surveys of the State of Utah.

United States Probate
Court of Appeals
and cannot be before any other court.

100-1810-Subj. 1 April, 1910.

Spencerally

U.S. Surveyor-General

APPROVAL **FOR USE.**

10. The following table gives the number of hours worked by each of the 100 workers in the factory.

REVIEW OF THE LANDER STATE SURVEYING MATERIAL.

UNIT LAKE CITY, FLA. January 7, 1938

The following table gives the extraction of the Hull, and

第二章 計算機的運算與存儲

10. *On the other hand, the author's own account of the history of the* *U.S.* *is* *not* *so* *far* *from* *the* *truth*.

1926

10. The following table shows the number of hours worked by each employee in a company.

John C. H. Smith *John C. H. Smith* *John C. H. Smith* *John C. H. Smith*

² According to the 2006 First National Survey of Early Childhood Education, 25% of children under age 5 were in center-based child care.

...and the first time I saw snow covered ground I thought it was beautiful, but now I think it's ugly.

Einheitsföderation Bündnis 90/Die Grünen

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Ex. FAS.

Filed Apr. 25, 1911.
WSH.

4-679

U
BOOK A-385

FIELD NOTES

OF THE SURVEY OF THE
RETRACEMENT AND SURVEY OF THE

S U B D I V I S I O N

OF

TOWNSHIP NO. 32 SOUTH, RANGE NO. 9 West

Of the SALT LAKE BASE AND Meridian,
In the State of U T A H

EXECUTED BY

JOHN R. STEWART AND QUINBY STEWART

Transitmen

In the capacity of U. S. Surveyor, under instructions dated Aug. 6, 1910,
issued by the United States Surveyor General to govern surveys included in
Group No. 1, which were approved by the Commissioner of the General Land
Office, Aug. 25, 1910, pursuant to authority contained in the Act of
Congress dated , 1911.

Survey commenced December 6, 1910

Survey completed December 24, 1910.

NAMES AND DUTIES OF ASSISTANTS.

R.Bert Carter,	Chainman.
Verne O.Nelson,	Chainman.
Isaac R. Hayes,	Moundman.
Ruban W.Riley,	Axman.
Maeser Dalley,	Chainman.
Harvey W.Elliott,	Chainman.
Alton Ivie,	Moundman.
Milc Nelson,	Axman.

For preliminary affidavits see book "L" T. 31 S., R.7 W.

BOOK A-385

INDEX DIAGRAM.

Township _____, Range _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	33	33	34	35	36

BOOK A-385

INDEX DIAGRAM.

Township 32 South, Range No. 9 West.

6	79	5	58	4	43	3	28	2	18	1
78		77		57		41		27		15
7	76	8	55	9	40	10	25	11	16	12
75		73		54		39		24		1
18	72	17	58	16	38	15	22	14	3	13
70		69		51		36		19		
19	68	20	50	21	35	22	21	23	4	24
67		66		48		34		8		
30	64	29	47	28	32	27	10	26		25
63		61		46		29				
31	59	33	44	33	31	34	12	35		36

Meanders Page

6-151

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chainma

, Chainma

Subscribed and sworn to before me this _____
day of _____, 19 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundma

, Moundma

Subscribed and sworn to before me this _____
day of _____, 19 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axman

, Axman

Subscribed and sworn to before me this _____
day of _____, 19 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

, Flagman

Subscribed and sworn to before me this _____
day of _____, 19 }



Retracement Subdivision of T.32 S., R.9 W.

Survey commenced December 6, 1910, and executed with a W. and L.E. Gurley Explorer's transit, No. 957, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs. The instrument was examined, tested on the meridian, at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

Note: For test of instrument see notes of Retracement E. bdy. T.32 S., R.9 W. taken today. At this cor. At 90 h 51 m a.m., l.m.t., I set off $38^{\circ}03' N.$, on the lat. arc; $22^{\circ}26' S.$, on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 7, 12, 13, and 18, heretofore described, on E. bdy. of Tp. 32 S., R. 9 W. Thence I run S. $89^{\circ}53' W.$, on a retracement line bet. secs. 12 and 13. Over mountainous land; through heavy cedar and pinon pine timber. And scattering sage brush.

Asc.

11.15 Top of ridge, 80 ft. above sec. cor., bears NE and SW.

Desc.

20.00 Bottom of hollow, 75 ft. below ridge, course S. $15^{\circ} W.$.

Asc.

23.60 Top of ridge, 30 ft. above hollow, bears N. and S.

Desc.

31.40 Bottom of hollow, 86 ft. below ridge, course S.E.

Asc.

39.93 Fall 81ks S. $\frac{1}{2}$ sec. cor. bet. secs. 12 and 13, which is a limestone, 9x10x10 ins. above ground, loosely set, and mkd. and witnessed as described by the surveyor general. The cor. is partly decayed therefore I destroy the old cor. and re-establish it in the same place as follows.

Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth

Retracement Sub.T:32 S., R.9 W.-Continued.

Chains	and stone, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 12 in N half and S 13 in S half; from which A pinon pine, 16 ins.dia., bears N.12°W., 20 lks. dist..mkd. $\frac{1}{4}$ S 12 B T. A cedar, 8 ins.dia., bears S.10°E., 52 lks. dist..mkd. $\frac{1}{4}$ S 13 B T.
42.90	Top of spur, 100 ft.above hollow, bears NW and SE. Desc.
55.00	Bottom of hollow, 100 ft.below ridge, course S.65°E. Asc.
67.00	Wood road, bears N.and S.
70.00	Begin steep ascent, bears N.and S.
79.50	Top of spur, 300 ft.above hollow, bears NE and SW. Desc.
79.86	Fall 16 lks:S cor.of secs.11,12,13, and 14, which is a red sandstone, 10x10x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The old cor.stone is greatly decayed; I therefore destroy the old cor.and reestablish it in the same place as follows: Set an iron post, 3 ft.long, 2 ins.in dia., 12 ins.in the ground, on rock bed; and surrounded by mound of earth and stone, for cor.of secs.11,12,13, and 14, mkd.on brass cap T 32 S S 11 in NW. R 9 W S 12 in NE. S 13 in SE.; and S 14 in SW.quadrants; from which A pinon pine, 4 ins.dia., bears N.12°E., 35 lks. dist..mkd.T 32 S R 9 W S 12 B T. A cedar, 8 ins.dia., bears S.57°15'E., 46 lks. dist..mkd.T 32 S R 9 W S 13 B T. A cedar, 5 ins.dia., bears S.16°30'W., 22 lks. dist..mkd.T 32 S R 9 W S 14 B T. A pinon pine, 10 ins.dia., bears N.43°30'W., 27 lks. dist..mkd.T 32 S R 9 W S 11 B T.

Retracement Sub,T.32 S.,R.9 W.-Continued.

Chains

The course of this mile is therefore West 79.86 chs.

Land, rough and steep ridges and hollows.

Soil, sandy loam with a hard rocky subsoil.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Mountainous or heavily timbered land, 79.86 chs.

December 6, 1910: At this cor. I set off 22°27'S., on the decl arc; and at 11 h 51 m a.m., l.m.t. I observe the sun on the meridian, the resulting lat. is 38°03' N., which is the proper lat. nearly.

Asc. 100 ft. from cor. to ridge, 30 ft. above cor. Desc. 100 ft. from cor. to hollow, 85 ft. below cor. Both asc'd and desc'd on retrace line bet. sec. 13 and 14.

South, on a retrace line bet. secs. 13 and 14. Over mountainous land; through scattering cedar and pinon pine timber and dense sage and oak brush.

Asc.

1.00 Top of ridge, 30 ft. above cor., bears NE and SW.

Desc.

12.60 Bottom of hollow, 85 ft. below ridge, course E.

Asc.

14.85 Top of spur, 100 ft. above hollow, bears E. and W.

Desc.

21.50 Bottom of hollow, 75 ft. below ridge, course E.

Asc.

27.10 Top of ridge, 110 ft. above hollow, bears E. and W.

Desc.

40.04 Intersect the $\frac{1}{4}$ sec. cor. bet. secs. 13 and 14, which is red sandstone, 10x11x12 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

The cor. is poorly mkd. therefore I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 14 in W half and S 13 in E half; from which

Retracement Sub.T.32 S., R.9 W.-Continued.

	Chains	A cedar, 6 ins.dia., bears S.32°E., 13 lks. dist..mkd. $\frac{1}{4}$ S 13 B T. 13 in NW. quadrant, dia. A pinon pine, 14 ins.dia., bears S.85°W., 44 lks. dist..mkd. $\frac{1}{4}$ S 14 B T. 13 in SW. quadrant, dia.
42.00	Bottom of canon, 400 ft. below ridge, course E. Spring branch, 3 lks.wide, 3 ins.deep, in bottom, course E.	Asc. 14' above T. 13. 1. m. 8 m 33' N 11' E. base; out desc.
43.50	Road from Paragonah to Milford, bears E. and W.	
53.00	Top of ridge, 150 ft. above canon, bears NE and SW. Desc.	
60.20	Bottom of hollow, 60 ft. below ridge, course E. Asc.	base 25' above, tall timber stand is reflected in water, which is about 10 ft. deep.
63.00	Top of spur, 80 ft. above hollow, bears NW and SE. Desc.	base 25' above, tall timber stand is reflected in water, which is about 10 ft. deep.
65.00	Ledge, 20 ft. high, bears NW and SE.	
67.20	Bottom of hollow, 60 ft. below spur, course SE. Asc.	base 25' above, tall timber stand is reflected in water, which is about 10 ft. deep.
73.00	Top of ridge, 70 ft. above hollow, bears NW and SE. Desc.	base 25' above, tall timber stand is reflected in water, which is about 10 ft. deep.
77.30	Bottom of hollow, 100 ft. below ridge, course SE. Asc.	base 25' above, tall timber stand is reflected in water, which is about 10 ft. deep.
80.20	Intersect the cor.of secs.13,14,23, and 24, which is a Cedar tree, 10 ins.dia., mkd.and witnessed as described by the surveyor general;the tree is dead and greatly dec- ayed, and reflected in water, which is about 10 ft. deep. therefore I destroy the old cor.and re-establish it in the same place as follows: Set an iron post, 3 ft.long, 2 ins.in dia., 14 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for cor.of secs.13,14,23, and 24,mkd.on brass cap and witness'd by surveyor. this iron post is 100 ft. T 32 S S 14 in NW. R 9 W S 13 in NE. S 24 in SE.; and S 23 in SW.quadrants;from which A pinon pine, 7 ins.dia., bears N.55°E., 80 lks.	base 25' above, tall timber stand is reflected in water, which is about 10 ft. deep.

Retracement Sub.T.32 S., R.9 W.-Continued.

Chains

dist..mkd.T 32 S R 9 W S 13 B.T.

A cedar, 12 ins.in dia., bears S.12°30'E., 160 lks.

dist..mkd.T 32 S.,R.9 W.,S 24 B.T.

A cedar, 20 ins.dia., bears S.15°W., 98 lks.

dist.mkd.T 32 S R 9 W S 23 B.T.

A cedar, 30 ins.in dia., bears N.31°W., 40 lks.

dist..mkd.T 32 S R 9 W S 14 B.T.

The course of this line is therefore South, 80.20 chs.

Land, rough and mountainous.Slopes and drains southeasterly toward Parowan Valley.

Soil, black sandy and clay loam about 1 ft.deep, rich and fertile;on a hard rocky subsoil.

Timber, cedar and pinon pine.

Undergrowth, oak and sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth, 80.20 chs.

South, on a retracement line betsecs.23 and 24.

over rough mountainous land;through heavy cedar and pinon pine timber and scattering oak and sage brush.

Asc.

1.90 Top of spur,30 ft.above cor.,bears E.and W.

Desc.

6.00 Wood road,bears E.and W.

Bottom of hollow,65 ft.below spur,course E.

Asc.

16.00 Top of spur,80 ft.above hollow,bears E.and W.

Desc.

22.50 Bottom of hollow,70 ft.below spur,course E.

Asc.

29.00 Top of spur,100 ft.above hollow,bears NW and SE.

Desc.

36.80 Bottom of hollow,100 ft.below spur,course SE.

Retracement Sub.T.32 S., R.9 W.-Continued.

Chains	
	Asc.
40.05	Intersect the $\frac{1}{4}$ sec.cor.betsecs:23 and 26., which is a red sandstone, 14x12x6 ins., lying on ground, mkd. and witnessed as described by the surveyor general. I destroy the old cor. and re-establish it in the same place as follows:
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 23 in W half and S 24 in E half; from which
	A pinon pine, 7 ins.dia., bears N.35°E., 40 lks. dist.. mkd. $\frac{1}{4}$ S 24 B T.
	A cedar, 8 ins.dia., bears N.89°W., 80 lks. dist.. mkd. $\frac{1}{4}$ S 23 B T.
44.70	Top of rocky spur, 100 ft. above hollow, bears E. and W.
	Desc.
50.00	Begin abrupt descent, bears NE and SW.
56.90	Foot of descent, 100 ft. below spur, bears NW and SE. Enter Parowan Valley.
	Leave heavy and enter scattering timber, bears NW and SE.
	Enter dense sage brush.
79.75	rail 15 lks. East of the cor.of secs.23,24,25, and 26, which is a cobble stone, 11x10x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The cor.stone is poorly mkd. therefore I destroy the old cor. and re-establish it in the same place as follows:
	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor.of secs.23,24,25, and 26, mkd.on brass cap T 32 S S 23 in NW.
	R 9 W S 24 in NE.
	S 25 in SE.; and
	S 26 in SW.quadrants;from which
	A cedar, 14 ins.dia., bears N.26°E., 238 lks. dist.. mkd.T 32 S R 9 W S 24 B T.
	A cedar, 4 ins.dia., bears S.15°E., 280 lks. dist.. mkd.T 32 S..R.9 W.S 25 B T.

Retracement Subdivision of T.32 S., R.9 W.-Continued.

Chains

A cedar, 5 ins. dia., bears S. 42° W., 185 lks.

dist..mkd.T 32 S.R.9 w S 25 B.T.

A cedar, 6 ins. dia., bears N. 11° W.
dist.. m.kd. T 32 S. R. 9 W S 23 B. T.

The course of the North half of this mile is therefore South, 40.05 chs. and the south half is S.0°13'W., 39.70

N.56.20 chs. over rough and broken ridges and hollows

sloping and draining east, covered with sandstone rocks

heavy cedar and pinon pine timber and scattering oak and

and sage brush. The soil is sandy loam about 1 ft. deep.

Mixed with rock. Good grass. South 28-25 elev. is very good.

...and scattered over the ground.

pinch pine timber soil, is loose sandy loam about 2 ft.

deep, with clay subsoil. No grass.

December 6, 1910.

John R. Stewart

Instrumentman (F.L.O.)

Retracement Sub.T.32 S.R.9 W.

Survey commenced December 10, 1910, and executed with a Young and Sons light mountain transit, No. 7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

Note: For test of instrument see notes of Regular Sub. this

Retracement Sub.T.32 S., R.9 W.-Continued.

Chains	township.
	At 8 h 53 m a.m., l.m.t., I set off 38°01'N., on the lat.arc; 22°51'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 23, 24, 25, and 26. heretofore described.
	Thence I run a great circle of 13 miles, due N.E., through S.89°48'W., on a retracement line bet.secs. 23 and 26.
	Over level valley land; through scattering cedar and pinon pine timber and dense sage brush.
	Asc.gently.
20.00	Leave valley, bears N.and S.
	Asc.abruptly.
21.00	Enter heavy cedar and pinon pine timber, bears N.and S.
37.70	Top of ridge, 250 ft. above valley, bears N.and S.
	Desc.
40.12	Fall 5 lks.S. of the $\frac{1}{2}$ sec.cor.bet.secs. 23 and 26, which is a sandstone, 10x10x5 ins., above ground; firmly set, and mkd.and witnessed as described by the surveyor general.
	I destroy the old cor.and re-establish it in the same place as follows:
	Set an iron post, 3 ft.long, 1 in.in dia., 20 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 23 in N half and S 26 in S half; from which
	A cedar, 16 ins.dia., bears N.73°W., 126 lks. dist..mkd. $\frac{1}{4}$ S 23 B T.
	A cedar, 10 ins.dia., bears S.73°E., 180 lks. dist..mkd. $\frac{1}{4}$ S 26 B T.
40.30	Bottom of hollow, 100 ft.below ridge, course SE.
	Asc.
40.60	Wood road, bears NW and SE.
43.00	Leave timber , bears N.and S.
	Enter dense sage brush, bears N.and S.

Retracement Sub. T 32 S. R 9 W.-continued.

Chains

- 44.40 South end of ledge, 40 ft. high, bears NE and NW.
 48.25 Top of ridge, 200 ft. above hollow, bears NW and SE.
 Desc.
 56.20 Bottom of hollow, 3120 ft. below ridge, course SE.
 Asc. abruptly.
 70.00 Top of ridge, 400 ft. above hollow, bears N.60°W. and S.60°E.
 Desc. Ridge, level ground, no trees, soil very light.
 75.70 Bottom of hollow, 100 ft. below ridge, course S.40°E.
 Asc.
 78.80 Ledge, 20 ft. high, bears N. and S.
 80.20 Fall 14 lks. south of the cor. of secs. 22, 23, 26, and 27, which
 is a red sandstone, 10x10x9 ins. above ground, firmly set, and
 mkd. and witnessed as described by the surveyor general.
 The cor. stone is partly decayed therefore I destroy the
 old cor. and re-establish it at the same place as follows:
 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the
 ground, for cor. of secs. 22, 23, 26, and 27, mkd. on brass cap
 and set T 32 S. S. 22 in NW. quadrant; S. 23 in NE.
 S. 26 in SE.; and S. 27 in SW. quadrants; and raise a mound of stone,
 2 ft. base, 1½ ft. high, W. of cor.
 The course of the east half of this mile is therefore
 $S.89^{\circ}52'W.$, 40.12 chs. and the west half is $S.89^{\circ}54'W.$,
 40.08 chs.
 East 20.00 over level valley; through dense sage brush and
 scattering cedar and pinon pine timber. Soil, is sandy loam
 about 2 ft. deep, on clay subsoil. No grass. West 60.20 chs.
 over general east slope of rocky ridges and hollows. Covered
 with heavy cedar and pinon pine timber and dense sage brush.
 Soil, sandy and clay loam about 1 ft. deep, on sandstone sub-
 soil. Good grass for grazing.
 Mountainous or heavily timbered land, or land covered with
 dense undergrowth, 80.20 chs.

Retracement Sub.T.32 S., R.9 W.-Continued.

Chains	✓	
		South, on a retrace ment line bet. secs. 26 and 27. No. 30.
		Over mountainous land; through dense sage brush and scattering timber.
		Desc. abrupt, on hill, which desc. 31 feet, elevation to ridge 100 ft.
6.25	Bottom of hollow, 100 ft. below cor., course S.80°E.	
	Asc. 1100 ft. above, which ascends 1700 ft. to ridge 300 ft.	
14.00	Top of ridge, 160 ft. above hollow, bears E. and W.	
	Desc. abruptly. 1100 ft. above, 32 feet, which descends 100 ft.	
23.00	Enter heavy timber, bears N.70°E. and W.	
27.60	Bottom of hollow, 300 ft. below ridge, course S.70°E.	
	Asc. 1100 ft. above, which descends 100 ft. to ridge 300 ft.	
32.70	Top of ridge, 150 ft. above hollow, bears N.80°W. and S.80°E.	
	Desc. 1100 ft. above, which descends 100 ft. to ridge 300 ft.	
40.06	Fall 4 lks. W. of the $\frac{1}{4}$ sec. cor. bet. secs. 26 and 27, which is a sandstone, 5x12x10 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The cor. stone is badly decayed; therefore I destroy the old cor. and re-establish it in the same place as follows:	
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 26 in W half and S 26 in E half; from which, dimensions, 10 ft. N.E.	
	A cedar, 9 ins. dia., bears S.22°E., 36 lks.	
	dist.. mkd. $\frac{1}{4}$ S 26 B T.	
	A cedar, 12 ins. dia., bears S.87°30'W., 62 lks.	
	dist.. mkd. $\frac{1}{4}$ S 27 B T.	
59.00	Bottom of hollow, 150 ft. below ridge, course E.	
	Asc. 1100 ft. above, which descends 100 ft. to ridge 300 ft.	
64.50	Top of ridge, 85 ft. above hollow, bears E. and W.	
	Desc. 1100 ft. above, which descends 100 ft. to ridge 300 ft.	
72.50	Bottom of hollow, 125 ft. below ridge, course N.80°E.	
	Asc. 1100 ft. above, which descends 100 ft. to ridge 300 ft.	
80.13	Fall 9 lks. W. of the cor. of secs. 26, 27, 34, and 35, which is the decayed stump of a cedar tree 8 ins. dia., marks almost obliterated. I destroy the old cor. and re-establish it in	

Retracement Subdivision of T. 32 S., R. 9 W.—continued.
the same place as follows:

Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, on solid rock and surrounded by mound of earth and stone, for cor. of secs. 26, 27, 34, and 35, mkd. on brass cap

T 32 S S 27 in NW.

R 9 W S 26 in NE.

S 35 in SE.; and

S 34 in SW. quadrants; from which

A pinon pine, 7 ins. dia., bears S. $42^{\circ}30' E.$, 91 lks.

dist.. mkd. T 32 S R 9 W S 35 B T.

A cedar, 5 ins. dia., bears S. $21^{\circ}30' W.$, 110 lks.

dist.. mkd. T 32 S R 9 W S 34 B T.

A pinon pine, 8 ins. dia., bears N. $42^{\circ}30' W.$, 72 lks.

dist.. mkd. T 32 S R 9 W S 27 B T.

No other tree within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, w. of cor.

The course of this mile is therefore S. $0^{\circ}4'E.$, 80.13 chs. Land, rough and mountainous.

Soil sandy loam about 1 ft. deep, mixed with sandstone rocks and gravel. Subsoil, gravel and rock/

Timber cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.13 chs.

December 10, 1910: At this cor. I set off $22^{\circ}53'S.$, on the decl. arc; and at 11 h 53 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $38^{\circ} 00' N.$, which is the proper lat. nearly.

South, on a retrace line bet. secs. 34 and 35.

Over mountainous land; through heavy cedar and pinon pine timber. And scattering sage brush.

Asc'd. 11,000 ft. in elevation, 11 miles from the sea level.

Retracement Sub.T.32 S., R.9 W.-Continued.

Chains	
6.00	Ledge, 30 ft. high, bears NE and SW.
6.80	Ledge on top of ridge, 60 ft. above sec.cor., bears NE and SW. Desc. over ledges.
8.70	Foot of ledges, bears NE and SW.
25.00	Bottom of hollow, 100 ft. below ridge, course E. Asc.
31.10	Top of ridge, 50 ft. above hollow, bears NW and SE. Desc.
40.00	Intersect the $\frac{1}{4}$ sec.cor. bet. secs. 34 and 35, which is a conglomerate stone, 6x12x8 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. I destroy the old cor. and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 1 ins. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 34 in W half and S 35 in E half; from which
	A pinon pine, 12 ins. dia., bears N.58°E., 59 lks. dist.. mkd. $\frac{1}{4}$ S 35 B.T.
	A pinon pine, 6 ins. dia. bears S.46°W., 40 lks. dist.. mkd. $\frac{1}{4}$ S 34 B.T.
47.50	Bottom of hollow, 50 ft. below ridge, course SE. Asc.
50.00	Top of ridge, 50 ft. above hollow, bears NW and SE. Desc.
53.60	Bottom of hollow, 35 ft. below ridge, course E. Asc.
63.00	Top of ridge, 100 ft. above hollow, bears E. and W. Desc.
81.00	Fall 210 lks. East of the cor. of secs. 2, 3, 34, and 35, on S.bdy. of Tp., wheretofore described, The course of the north half of this mile is therefore

Retracement Sub.T.32 S.,R.9 W.-Continued.

Chains

South 40.00 chs.; and the south half is S.2°56'W.4105 chs.

Land, rough and mountainous covered with sandstone rocks and boulders.

Soil, sandy loam about 1 ft. deep, on hard rocky subsoil.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 81.05 chs.

December 10, 1910.

Dunby Stewart,
Instrumentman G.L.O.

Subdivision T.32 S., R.9 W.

Survey commenced December 11, 1910, and executed with a Young and Sons light mountain transit, No. 7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation; I proceed as follows:

At the cor. of secs. 11, 12, 13, and 14, latitude $38^{\circ}02'32''$ N., longitude $112^{\circ}47'29''$ West, I set off $38^{\circ}03'$ N., on the lat.

Subdivision T.32 S., R.9 W.-Continued.

Chains

arc; $22^{\circ}58' S.$, on the decl.arc; and at $2 h 53 m$ a.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N.of the cor.

December 11, 1910.

December 12, 1910: At $2 h 04 m$ a.m., l.m.t., I observe Polaris at western elongation in accordance with the Manual and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N.of the cor.

At $8 h 30 m$ a.m.l.m.t., I lay off the azimuth of Polaris $1^{\circ}29.4'$ to the east and mark the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N.of the cor.; this mark falls 0.28 ins. east of the meridian established by Polaris observation;

At $8 h 54 m$ a.m., l.m.t., I set off $38^{\circ}03' N.$, on the lat. arc; $23^{\circ}01' S.$, on the decl.arc; and determine a meridian with the solar, and mark a point thereof by a cross on the stone already set 5.00 chs. N.of the cor.; this mark falls 0.32 ins. east of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0'15''$ west and $0'17''$ east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at $9 h 0 m$ a.m., is $N.16^{\circ}03' W.$, the angle thus determined gives the mag.decl. $16^{\circ}03' W.$

Subdivision of T.32 S., R.9 W.-Continued.

Chains	
	From the cor.of secs.11,12,13, and 14,
	I run
	North, on a random line bet.sec.11 and 12.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.00	Set temp.cor.of secs.1,2,11, and 12.
	. Thence I run, N. 71° E., 80 ft. down and
	East, on a random line bet.sec.1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
81.95	intersect E.bdy.of Tp., 43 lks.S. of the cor.of secs.1,6, 7, and 12, heretofore described.
	Thence I run
	S.89°42'W., on a true line bet.sec.1 and 12.
	Over mountainous land; through heavy cedar and pinon pine timber.
	Desc.
17.40	Bottom of hollow, 200 ft. below sec.cor., course SW.
	Asc.
27.00	Top of ridge, 90 ft. above hollow, bears N. and S.
	Desc.
31.60	Bottom of hollow, 200 ft. below ridge, course S.
	Asc.
41.95	Set an iron post, 3 ft.long, 1 in.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 1 in N half and S 12 in S half; from which
	A cedar, 7 ins.dia., bears N.71°E., 28 lks.
	dist..mkd. $\frac{1}{4}$ S 1 B.T.
	A pinon pine, 6/ ins.dia., bears S.18°E., 20 lks.
	dist..mkd. $\frac{1}{4}$ S 12 B.T.
43.25	Top of ridge, 100 ft.above hollow, bears NW and SE.
	Desc.
49.75	Bottom of hollow, 100 ft.below ridge, course S.
	Asc.
59.50	Top of ridge, 125ft.above hollow, bears N. and S.
	Desc.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

61.90 Bottom of hollow, 80 ft. below ridge, course S.

Asc.

61.95 Intersect N. and S. line, at the temp.cor.

Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground, on cemented gravel, and surrounded by mound of earth and stone, for cor. of secs. 1, 2, 11, and 12, mkd. on brass cap

T 32 S S 2 in NW.

R 9 W S 1 in NE.

S 12 in SE.; and

S 11 in SW. quadrants; from which

A cedar, 9 ins. dia., bears N. 50° E., 30 lks.
dist.. mkd. T 32 S R 9 W S 1 B T.

A pinon pine, 7 ins. dia., bears S. 63° E., 14 lks.
dist.. mkd. T 32 S R 9 W S 12 B T.

A pinon pine, 4 ins. dia., bears S. 37° W., 30 lks.
dist.. mkd. T 32 S R 9 W S 11 B T.

A pinon pine, 9 ins. dia., bears N. 42° W., 40 lks.
dist.. mkd. T 32 S R 9 W S 2 B T.

Land, rough and mountainous.

Soil, sandy loam about 1 ft. deep, mixed with sandstone rocks; subsoil, hard and rocky gravel.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 61.95 chs.

December 12, 1910: At this cor. I set off 23°03'S., on the decl. arc; and at 11 h 54 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°03' N., which is the proper lat. nearly.

South, on a true line between 11 and 12.

Over mountainous land; through heavy cedar and pinon pine

Subdivision of T.32 S., R.9 W.-Continued.

Chains	timber.
Asc.	Asc.
1.50	Top of spur, 10 ft. above sec.cor., bears E. and W.
	Desc.
38.00	Bottom of hollow, 170 ft. below ridge, course E.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 14 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 11 in W half and S 12 in E half; from which A pinon pine, 11 ins dia., bears S.83°E., 87 lks. dist.. mkd. $\frac{1}{4}$ S 12 B.T.
	A pinon pine, 18 ins. dia., bears N.50°W., 45 lks. dist.. mkd. $\frac{1}{4}$ S 11 B.T.
41.25	Top of spur, 50 ft. above hollow, bears E. and W.
	Desc.
48.30	Bottom of hollow, 75 ft. below spur, course E;
	Asc.
57.00	Top of spur, 85 ft. above hollow, bears E. and W.
	Desc.
65.35	Wood road, bears E. and W. Bottom of hollow, 175 ft. below spur, course E.
	Asc.
66.00	Begin abrupt ascent, bears E. and W.
80.00	The cor. of secs. 11, 12, 13 and 14, Land, rough and steep; drains southeasterly. Soil, sandy loam about 18 ins. deep, with hard rocky sub-soil. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, 80.00 chs.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	Note: Knowing from lines already run that the line bet. secs. 1 and 2 will not intersect N.bdy.of Tp., within limits I Run N.0°01'W., on a true line bet.secs.1 and 2. Over mountainous land; through heavy cedar and pinon pine timber and scattering sage and buck brush.
	Desc.
40.00	Set an iron post, 3 ft.long, 1 in in dia., 20 ins.in the ground, on rock, and surrounded by mound of earth and stone for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{2}$ S 2 in W half and S 1 in E half ;from which A cedar, 24 ins.dia., bears N.76°E., 14 lks. dist.. mkd. $\frac{1}{2}$ S 1 B T.
	A pinon pine, 8 ins.dia., bears N.88°W., 39 lks. dist.. mkd. $\frac{1}{2}$ S 2 B T.
53.00	Top of conglomerate ledge, 100 ft.high, bears E.and W.
69.70	Bottom of hollow, 150 ft.below sec.cor., course E. Asc.
75.00	Top of ridge, 100 ft.above hollow, bears E.and W. Desc.
79.60	Bottom of hollow, 90 ft.below ridge, course E. Asc.
85.64	Intersect N.bdy.of Tp., 1.76 chs.West of the cor.of secs.1, 2m35, and 36, heretofore described. Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.1 and 2, mkd.on brass cap C C T 31 S R 9 W S 35 S 36 in N half. R 9 W S 1 in SE.;and T 32 S S 2 in SW.quadrants;from which A pinon pine, 5 ins.dia., bears S.80°E., 48 lks. dist.. mkd.T 32 S R 9 W S 1 B T.
	A pinon pine, 4 ins.dia., bears S.45°W., 34 lks. dist.. mkd.T 32 S R 9 W S 2 B T.
	Note:I destroy all marks on the cor.of secs.1, 2, 35, and 36 which pertain to secs.1 and 2.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

Land, mountainous and rough slopes east.

Soil, sandy and clay loam about 18 ins. deep, mixed with rock, subsoil, hard clay and gravel.

Timber, cedar and pinon pine.

Undergrowth, sage brush and buck brush.

Mountainous or heavily timbered land 8564 chs.

December 12, 1910.

December 13, 1910: At 8 h 54 m a.m., l.m.t., I set off $38^{\circ}01' N.$ N., on the lat.arc; $23^{\circ}06'S.$, on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 22, 23, 26, and 27.

Thence I run

North, on a random line bet.secs. 22 and 23.

40.00

Set temp. $\frac{1}{4}$ sec.cor.

80.00

Set temp.sec.cor.

Thence I run

N. $89^{\circ}53'E.$, on a random line bet.secs. 14 and 23.

40.00

Set temp. $\frac{1}{4}$ sec.cor.

80.52

Intersect N. and S.line, 7 lks.S. of the cor.of secs. 13, 14, 23, and 24.

Thence I run

N. $89^{\circ}50'W.$, on a true line bet.secs. 14 and 23.

Over mountainous land; through heavy cedar and pinon pine timber.

Asc.

5.00

Top of ridge, 100 ft. above cor., bears N. $30^{\circ}W.$ and S. $30^{\circ}E.$

Desc.

15.65

Bottom of hollow, 120 ft. below ridge, course S.

Asc.

25.00

Top of ridge, 100 ft. above hollow, bears NW $30^{\circ}W.$ and S. $30^{\circ}E.$

Desc.

30.30

Bottom of hollow, 100 ft. below ridge, course SE.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	
	Asc.
40.52	Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 14 in N half and S.23 in S half; from which A pinon pine, 12 / ins.dia., bears N.12°W., 39 lks. dist..mkd. $\frac{1}{2}$ S 14 B T. A cedar, 14 ins.dia., bears S.84°E., 18 lks. dist..mkd. $\frac{1}{4}$ S 23 B T.
50.00	Top of ridge, 400 ft. above hollow, bears N.30°W. and S.30°E.
	Desc.
57.30	Head of hollow, 180 ft. below ridge, course SE.
	Asc.
71.00	Top of ridge, 150 ft. above hollow, bears NE and SW. This is divide between Parowan and Cedar valleys. Desc.
80.52	Intersect N. and S. random line, at the tempo cor. Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground, on rock, and surrounded by mound of earth and stone for cor.of sscs.14,15,22, and 23, mkd.on brass cap T 32 S S 15 in NW. R 9 W S 14 in NE. S 23 in SE.; and S 22 in SW.quadrants; from which A pinon pine, 12 ins.dia., bears N.35°E., 23 lks. dist..mkd.T 32 S R 9 W S 14 B T. A pinon pine, 10 ins.dia., bears S.49°E., 27 lks. dist..mkd.T 32 S R 9 W S 23 B T. A cedar, 6 ins.dia., bears S.14°W., 72 lks. dist..mkd.T 32 S R 9 W S 22 B T. A cedar, 5 ins.dia., bears N.86°W., 30 lks. dist..mkd.T 32 S R 9 W S 15 B T. Land, rough and mountainous slopes easterly. Soil, sandy loam about 18 ins.deep, mixed with rock.subsoil clay and gravel.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

Timber, cedar and pinon pine.

A very little grass.

Mountainous or heavily timbered land, 80.52 chs.

December 13, 1910: At this cor. I set off 23°07'S., on the decl. arc; and at 11 h 54 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°02'N. which is the proper lat. nearly.

South, on a true line bet. secs. 22 and 23.

Over mountainous land; through heavy cedar and pinon pine timber and dense sage brush.

Asc.

12.80 Top of divide ridge, bet. Parowan and Cedar valleys, 100 ft. above cor., bears NE and S. 20°W.

Desc.

15.20 Bottom of hollow, 60 ft. below ridge, course S. 70°E.

Asc.

18.60 Top of ridge, 30 ft. above hollow, bears N. 75°W. and S. 75°E.

Desc.

20.90 Ledge, 70 ft. high, bears E. and W.

26.60 Head of hollow, 300 ft. below ridge, course S. 70°E.

Asc.

32.80 Ledge 60 ft. high, bears S. and W.

35.90 Top of ridge, 225 ft. above hollow, bears NE and SW.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 22 in W half and S 23 in E half; from which

A pinon pine, 10 ins. dia., bears S. 73°E., 58 lks.

dist.. mkd. $\frac{1}{2}$ S 23 B T.

A pinon pine, 6 ins. dia., bears N. 82°W., 84 lks.

dist.. mkd. $\frac{1}{2}$ S 22 B T.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

50.25 Wood road, bears E. and W.

Bottom of hollow, 350 ft. below ridge, course E., about 5.00 chs. thence SE.

Asc.

58.00 Top of ridge, 200 ft. above hollow, bears E. and W.

Desc.

69.60 Bottom of hollow, 200 ft. below ridge, course SE.

Asc.

71.00 Top of ridge, 60 ft. above hollow, bears NW and SE.

Desc.

78.00 Leave timber, bears NE and SW.

80.00 The cor. of secs. 22, 23, 26, and 27.

Land, rough and mountainous with steep slopes and a number of sandstone ledges.

Soil, sandy loam about 14 ins. deep, with gravel and rock subsoil.

Timber, cedar and pinon pine.

Undergrowth, scattering sage brush.

A very little grass.

Mountainous or heavily timbered land, 80.00 chs.

N.0°1'W., bet. secs. 14 and 15.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Desc.

15.00 Bottom of hollow, 75 ft. below cor., course NW.

Asc.

21.20 Top of ridge, 60 ft. above hollow, bears E. and W.

Desc.

25.00 Wood road, bears East. and west.

Bottom of hollow, 50 ft. below ridge, course W.

Asc.

37.00 Top of ridge, 180 ft. above hollow, bears N.30°E. and SW.

Desc.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for 1 sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 15 in W half and S 14 in E half; from which
 A cedar, 10 ins. dia., bears N.32°E., 19 lks.
 dist.. mkd. $\frac{1}{4}$ S 14 B T.
 A cedar, 7 ins. dia., bears S.41°W., 52 lks.
 dist.. mkd. $\frac{1}{4}$ S 52 B T.
- 44.80 Bottom of hollow, 30 ft. below ridge, course SW.
 Asc.
- 63.00 Top of ridge, 180 ft. above hollow, bears NW and SE.
 This is divide between Parowan and Cedar valleys . Desc.
- 67.50 Bottom of hollow, 40 ft. below ridge, course E.
 Asc.
- 74.00 Top of spur, 100 ft. above hollow, bears N.80°W. and S.80°E.
 Desc.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor.of secs.10,11,14, and 15, mkd.on brass cap
 T 32 S S 10 in NW.
 R 9 W S 11 in NE.
 S 14 in SE.; and
 S 15 in SW.quadrants; from which
 A cedar, 6 ins. dia., bears N.29°E., 61 lks.
 dist.. mkd. T 32 S R 9 W S 11 B T.
 A cedar, 10 ins. dia., bears S.49°E., 93 lks.
 dist.. mkd. T 32 S R 9 W S 14 B T.
 A cedar, 8 ins. dia., bears S.20°W., 51 lks.
 dist.. mkd. T 32 S R 9 W S 15 B T.
 A cedar, 6 ins. dia., bears N.74°W., 41 lks.
 dist.. mkd. T 32 S R 9 W S 10 B T.
- Land, rough and rocky mountains.
 Soil, sandy loam mixed with sandstone, rock, with a rocky

Subdivision of T.32 S., R.9 W.-Continued.

Chains	subsoil. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, 80.00 chs.
	December 13, 1910.
40.00	December 14, 1910: At 8 h 54 m a.m., l.m.t., I set off 38°03' N., on the lat.arc; 23°10'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.10,11,14, and 15. Thence I run S.89°50'E., on a random line betsecs.11 and 14.
80.70	Set temp. $\frac{1}{4}$ sec.cor. Intersect N.and S.line, 23 lks.S. of the cor.of secs.11,12, 13, and 14. Thence I run West, on a true line betsecs.11 and 14. Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush. Desc.abruptly.
12.50	Foot of steep descent, bears N.and S.
17.00	Wood road, bears N. and S. Bottom of hollow, 250 ft. below ridge, course S. Asc.gradually.
40.70	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 11 in N half and S 14 in S half; from which A cedar, 9 ins.dia., bears N.10°40'W., 87 lks. dist., mkd. $\frac{1}{4}$ S 11 B T. A cedar, 7 ins.dia., bears S.23°30'E., 25 lks. dist..mkd. $\frac{1}{4}$ S 14 B T.
55.00	Top of ridge, 90 ft above hollow, bears NW and SE.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	
	Desc.
74.80	Road from Paragoonah to Milford; bears NW and SE. Bottom of hollow, 70 ft. below ridge, course SE.
	Asc.
80.70	The cor. of secs. 10, 11, 14, and 15. Land, mountainous rocky and steep. Soil, sandy loam about 1 ft. deep, mixed with rock. Subsoil, gravel. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, 80.70 chs. December 14, 1910: At this cor. I set off 23° 11' S., on the decl. arc; and at 11 h 54 m a.m., 11 m.t., I observe the sun on the meridian, the resulting lat. is 38° 03' N., which is the proper lat. nearly.
	N. 0° 1' W., bet. secs. 10 and 11.
	Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
	Desc.
3.20	Road from Paragoonah to Milford, bears E and W. Bottom of hollow, 50 ft. below cor, course E.
	Asc.
12.65	Top of ridge, 150 ft. above hollow, bears E. and W.
	Desc.
20.00	Head of hollow, 85 ft. below ridge, course S. 25° E.
	Asc.
35.00	Top of divide ridge bet. Parowan and Cedar valleys, 200 ft above hollow, bears NE and SW.
	Desc.
40.00	Set an iron post, 3 ft. long, 1 in in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and

Subdivision of T.32 S., R.9 W.-Continued.

Chains	stone, for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 10 in W half; and S 11 in E half; from which
	A cedar, 10 ins.dia., bears S.45°E., 105 lks. dist..mkd. $\frac{1}{4}$ S 11 B T.
	A cedar, 6. ins.dia., bears S.45°W., 114 lks. dist..mkd. $\frac{1}{4}$ S 10 B T.
40.50	Bottom of hollow, 170 ft. below ridge, course NE. Asc.
45.00	Top of spur, 60 ft. above hollow, bears E. and W. Desc.
65.70	Bottom of same hollow, 80 ft. below ridge, course NW. Asc.
80.00	Set an iron post, 3 ft.long, 2 ins.in dia., 20 ins.in the ground, on rock, and surrounded by mound of earth and stone for cor.of secs.2,3,10, and 11,mkd.on brass cap T 32 S S 3 in NW. R 9 W S 2 in NE. S 11 in SE.;and S 10 in SW.quadrants;from which A pinon pine, 6 ins.dia., bears N.8°E., 73 lks. dist..mkd.T 32 S R 9 W S 2 B T. A cedar, 5 ins.dia., bears S.39°30'E., 32 lks. dist..mkd.T 32 S R 9 W S 11 B T. A cedar, 6 ins.dia., bears S.55°W., 33 lks. dist..mkd.T 32 S R 9 W S 10 B T. A pinon pine, 6 ins.dia., bears N.19°W., 100 lks. dist..mkd.T 32 S R 9 W S 3 B T. Land, rough and rocky ridges and hollows. Soil, sandy loam mixed with sandstone rocks and conglomerate boulders;about 1 ft.deep, on rocky subsoil. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, 80.00 chs.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

December 15, 1910: At 8 h 55 m a.m., l.m.t., I set off $38^{\circ}03'N.$, on the lat.arc; $23^{\circ}13'S.$, on the decl.arc; and determine a meridian with the solar, at the cor.of secs.2,3,10, and 11.

Thence I run

East, on a random line bet.secs.2 and 11.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.72 Intersect N.and S.line, 9 lks.N. of the cor.of secs. 1,2,11, and 12.

Thence I run

$N.89^{\circ}56'W.$, on a true line bet.secs.2 and 11.

Over mountainous land; through heavy cedar and pinon pine timber.

Asc.over rocks and boulders.

40.72 Set an iron post, 3 ft.long, 1 in.in dia., 19 ins.in the ground, in solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor,mkd.on brass cap $\frac{1}{4}$ S 2 in N half and S 11 in S half; from which

A pinon pine, 15 ins.bears $N.44^{\circ}W.$, 34 lks.

dist..mkd. $\frac{1}{4}$ S 2 B T.

A pinon pine, 15 ins.dia., bears $S.24^{\circ}E.$, 60 lks.

dist..mkd. $\frac{1}{4}$ S 11 B T.

51.80 Top of divide ridge between Parowan valley and Cedar valley, 400 ft.above sec.cor., bears N. and S.

Desc.

80.72 The cor.of secs.2,3,10, and 11.

Land, very rough and rocky.

Soil, sandy loam mixed with rock ;3rd rate. about 6 ins. deep, subsoil, rock.

Timber, cedar and pinon pine.

Undergrowth, sage brush

No grass

Mountainous land, or land covered with dense undergrowth,

80.72 chs.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

December 15, 1910: At this cor. I set off $23^{\circ}13' S.$, on the decl. arc; and at 11 h 55 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $38^{\circ}03' N.$, which is the proper lat. nearly.

For reasons already explained I run

$N.0^{\circ}1' W.$, on a true line bet. secs. 2 and 3.

Over mountainous land; through heavy cedar and pinon pine timber.

Asc.

7.50 Top of ridge, 1250 ft above sec.cor., bears E and W.

Desc.

17.90 Bottom of hollow, 200 ft. below ridge, course W.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.. mkd. on brass cap $\frac{1}{4} S 3$ in W half and $S 2'$ in E half; from which

A cedar, 8 ins. dia., bears $N.81^{\circ}E.$, 112 lks.

dist.. mkd. $\frac{1}{4} S 2 B T.$

A pinon pine, 5 ins. dia., bears $S.57^{\circ}W.$, 25 lks.

dist.. mkd. $\frac{1}{4} S 3 B T.$

45.50 Top of rocky ridge, 800 ft. above hollow, bears W. and $S.60^{\circ}$

E.

Desc. abruptly.

85.50 Intersect N.bdy. of Tp., 2.37 chs. West of the cor. of secs 2, 3, 34, and 35, heretofore described.

Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for closing cor. of secs. 2 and 3, mkd. on brass cap

C C T 31 S R 9 W S 34 S 35 in N half;

R 9 W S 2 in SE.; and

T 32 S S 3 in SW. quadrants; from which

Subdivision of T.32 S., R.9 W. -Continued.

Chains

A cedar, 8 ins. dia., bears S.35° E., 38 lks.

dist..mkd.T 32 S R 9 W S 2 B T.

A cedar, 8 ins. dia., bears S.40° W., 49 lks.

dist..mkd.T 32 S R 9 W S 3 B T.

Note: I destroy the marks on the cor. of secs. 2, 3, 34, and 35 which pertain to secs. 2 and 3.

Land, high steep and rocky.

Soil, sandy loam about 5 ins. deep and mixed with rock.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 85.50 chs.

December 15, 1910.

John R Stewart

Instrumentman G.L.O.

December 12, 1910: At 8 h 54 m a.m., l.m.t., I set off 38° 59' N., on the lat.arc; 23° 01' S., on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 3, 4, 33, and 34, on S.bdy. of Tp., heretofore described.

Thence I run

North, on a random line bet. secs. 33 and 34.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.00 Set temp.sec.cor.

Thence I run

East, on a random line bet. secs. 27 and 34.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.90 Intersect N.and S.line, 4 lks. N. of the cor. of secs. 26, 27, 34, and 35.

Thence I run

N.89° 58' W., on a true line bet. secs. 27 and 34.

Over mountainous land; through dense sage brush and scattering timber.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	Desc.
4.50	Bottom of hollow, 90 ft. below sec.cor., course N.
10.00	Asc. Top of ridge, 60 ft. above hollow, bears N. and S.
12.30	Desc. Bottom of hollow, 40 ft. below ridge, course W.
31.50	Asc. Top of steep rocky ridge, 270 ft. above hollow, bears NE and SW.
32.20	Desc. Enter heavy timber, bears N. and S.
39.95	Set an iron post, 3 ft. long, 1 in. dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 27 in N half and S 34 in S half; from which A pinon pine, 5 ins.dia., bears N.37°W., 10 lks. dist.. mkd. $\frac{1}{4}$ S 27 B T. A pinon pine, 5 ins.dia., bears S.72°E., 36 lks. dist.. mkd. $\frac{1}{4}$ S 34 B T.
42.85	Bottom of hollow, 100 ft. below ridge, course NE.
43.00	Asc. abruptly. Leave heavy and enter scattering timber, bears NE and SW.
58.30	Sandstone, butte, 75 ft. high, bears N. and S.
61.80	Top of divide ridge between Parowan and Cedar Valleys 200 ft. above hollow, bears NE and SW.
62.50	Desc. Enter heavy cedar and pinon pine timber, bears NE and SW.
79.90	Intersect Random N. and S. line at the temp.cor. Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, on solid rock, and surrounded by a mound of earth and stone, for cor.of secs.27, 28, 33, and 34, mkd.on brass cap T 32 S S 28 in NW. R 9 W. S 27 in NE. S 34 in SE.; and S 33 in SW.quadrants; from which

Subdivision of T.32 S., R.9 W.-Continued.

Chains

A pinon pine, 7 ins. dia., bears N.36°E., 70 lks.

dist..mkd.T 32 S R 9 W S 27 B T.

A cedar, 6 ins. dia., bears S.52°E., 28 lks.

dist..mkd.T 32 S R 9 W S 34 B T.

A pinon pine, 7 ins. dia., bears S.47°30'W., 18 lks.

dist..mkd.T 32 S R 9 W S 33 B T.

A pinon pine, 4 ins. dia., bears N.47°W., 48 lks.

dist..mkd.T 32 S R 9 W S 28 B T.

Land, rough and steep ridges and hollows.

Soil, black sandy loam mixed with granite rock, hard rocky subsoil.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

No grass.

Mountainous or heavily timbered land, 79.90 chs.

December 12, 1910: At this cor. I set off 23°03'S., on the decl. arc; and at 11 h 54 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°00'N., which is the proper lat. nearly.

South, on a true line bet. secs. 33 and 34.

Over mountainous land; through heavy cedar and pinon pine timber; ascend.

9.00 Bottom of hollow, 150 ft. below sec.cor., course N.70°W.

Asc.

25.00 Top of divide ridge, between Panowan and Cedar valleys
200 ft. above hollow, bears N.20°E. and S.20°W.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 33 in W half and S 34 in E half; from which

A pinon pine, 30 ins. dia., bears S.33°E., 29 lks.

Subdivision of T. 32 S., R. 9 W.-Continued.

Chains	dist.. mkd. $\frac{1}{4}$ S 34 B.T.
	A pinon pine, 6 ins. dia.. bears S. 50° W., 61 lks.
	dist.. mkd. $\frac{1}{4}$ S 33 B.T.
42.70	Bottom of hollow, 60 ft. below ridge, course E.
	Asc.
46.50	Top of ridge 50 ft. above hollow, bears E. and W.
	Desc.
49.60	Bottom of hollow, 150 ft. below ridge; course NE.
	Asc.
58.45	Top of ridge, 200 ft. above hollow, bears N. 60° E. and S. 60° W.
	Desc.
80.00	The cor. of secs. 3, 4, 53, and 34. 200 ft. below ridge.. Land, rough and steep ridges and hollows covered with volcanic rock. Timber, cedar and pinon pine. Soil, black loam about 6 ins. deep, on hard rocky subsoil. Undergrowth, sage brush. No grass . Mountainous or heavily timbered land, 80.00 chs.
	N. 0° 5' W., bet. secs. 27 and 28.
	Over rough mountainous land; through heavy timber .
	Asc.
5.00	Top of ridge, 40 ft. above cor., bears E. and W.
	Desc.
10.60	Bottom of hollow, 60 ft. below ridge, course SW.
	Asc.
23.00	Top of ridge, 200 ft. above hollow, bears E. and W.
	Desc.
27.60	Bottom of hollow, 90 ft. below ridge, course W.
	Asc.
37.00	Top of ridge, 100 ft. above hollow, bears E. and NW.

Subdivision of T.32 S., R.9. W., Continued.

Chains

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$. S 28 in W half; and S 27 in E half; from which

A pinon pine, 6 ins. dia., bears S.87°E., 48 lks.

dist.. mkd. $\frac{1}{4}$ S 27 B T.

A cedar, 11 ins. dia., bears S.40°W., 32 lks.

dist.. mkd. $\frac{1}{4}$ S 28 B T.

44.00 Ledge, 60 ft. high, bears E. and W.

Begin abrupt descent, bears E. and W.

80.00 Point 1000 ft. below ridge,

Set an iron post 3 ft. long, 2 ins. in dia., 19 ins. in the ground, on cemented gravel, and surrounded by mound of earth and stone, for cor. of secs. 21, 22, 27, and 28, mkd. on brass cap

\checkmark T 32 S S 21 in NW.

\checkmark R 9 W S 22 in NE.

\checkmark S 27 in SE.; and

\checkmark S 28 in SW. quadrants; from which

A cedar, 10 ins. dia., bears N.15°E., 81 lks.

dist.. mkd. T 32 S R 9 W S 22 B T.

A cedar, 9 ins. dia., bears S.31°E., 45 lks.

dist.. mkd. T 32 S R 9 W S 27 B T.

A cedar, 7 ins. dia., bears S.31°W., 73 lks.

dist.. mkd. T 32 S R 9 W S 28 B T.

A pinon pine, 10 ins. dia., bears N.37°W., 72 lks.

dist.. mkd. T 32 S R 9 W S 21 B T.

Land, rough and steep mountains.

Soil, sandy loam mixed with rock and about 1 ft. deep. Hard clay and gravel subsoil.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing in patches.

Mountainous & heavily timbered land, 80.00 chs.

Subdivision of T.32 S., R.9. W.-Continued.

Chains	
	December 13, 1910: At 8 h 54 m a.m.l.m.t., I set off 38°01' N on the lat.arc; 23°06'S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 21, 22, 27, and 28.
	Thence I run S.89°58'E., on a random line betsecs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.98	Intersect a N.and S.line, 7. lks.S. of the cor.of secs. 22, 23, 26, and 27.
	Thence I run S.89°59'W1, on a true line betsecs. 22 and 27.
	Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
	Asc.
13.10	Top of ridge, 300 ft.above sec.cor., bears N.20°W.and S.20°E.
	Desc.
17.20	Head of hollow, 100 ft.below ridge, course S.30°E.
	Asc.
22.00	Top of spur, 300 ft.above hollow, bears N.and S.
	Desc.
24.40	Bottom of hollow, 30 ft.below spur, course S.45°E.
	Asc.abruptly.
37.00	Top of divide ridge between Parowan and Cedar valleys, 400 ft.above hollow, bears N.15°E.and S.15°W.
	Desc.
39.99	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 22 in N half and S 27 in S half; from which
	A pinon pine, 8 ins.dia., bears N. 57°E., 38 lks. dist.. mkd. $\frac{1}{4}$ S 22 B T.
	A cedar, 7 ins.dia., bears S.45°W., 7 lks.dist. mkd. $\frac{1}{4}$ S 27 B T.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	
56.60	Bottom of hollow, 250 ft. below ridge, course NW. Asc.
59.35	Top of ridge, 70 ft. above hollow, bears NW and SE. Desc.
69.20	Bottom of hollow, 30 ft. below ridge, course N. Asc.
73.10	Top of ridge, 60 ft. above hollow, bears N.15°W. and S.15°E. Desc.
76.40	Head of hollow, 40 ft. below ridge, course N.75°W. ✓ Asc. gradually.
79.98	The cor. of secs. 21, 22, 27, and 28. Land, steep, and rough mountains covered with loose rock. Soil, sandy loam and volcanic shale about 6 ins. deep, on hard clay subsoil. Timber, cedar and pinon pine. Undergrowth, sage brush. Some good grass. Mountainous or heavily timbered land, 79.98 chs.
	N.0°1'W., bet. secs. 21 and 22. Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush. Desc.
3.40	Bottom of hollow, 50 ft. below sec.cor., course N.60°W. Asc.
9.50	Top of ridge, 120 ft. above hollow, bears N.75°W. and S.75°E. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on rock, and surrounded by mound of earth and stone for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 21 in W half. and S 22 in E half; from which A pinon pine, 7 ins. dia., bears N.41°E., 47 lks. dist.. mkd. $\frac{1}{2}$ S 22 B T.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

- A cedar, 5 ins. dia., bears N.24°W., 26 lks.
dist..mkd. $\frac{1}{4}$ S 21 B T.
- Bottom of hollow, 150 ft. below ridge, course S.65°W.,
Asc.
- Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the
ground, on solid rock, and surrounded with mound of earth and
stone, for cor. of secs. 15, 16, 21, and 22, mkd. on brass cap
T 32 S S 16 in NW.
- R 9 W S 15 in NE.
- S 22 in SE.; and
- S 21 in SW. quadrants; from which
- A cedar, 6 ins. dia., bears N.56°E., 57 lks.
dist..mkd.T 32 S R 9 W S 15 B T.
- A cedar, 10 ins. dia., bears S.8°E., 53 lks.
dist..mkd.T 32 S R 9 W S 22 B T.
- A pinon pine, 7 ins. dia., bears S.52°W., 39 lks.
dist..mkd.T 32 S R 9 W S 21 B T.
- A pinon pine, 8 ins. dia., bears N.64°W., 66 lks.
dist..mkd.T 32 S R 9 W S 16 B T.
- Land, mountainous.
- Soil, hard sand mixed with rock.
- Timber, cedar and pinon pine.
- Undergrowth, sage brush.
- No grass.
- Mountainous or heavily timbered land, 80.00 chs.
- December 13, 1910: At the noon hour the sky is overcast and solar observations are impossible.
- N.89°59'E., on a random line bet. secs. 15 and 22.
- Set temp. $\frac{1}{4}$ sec.cor.
- Intersect N. and S. line, 7 lks. S. of the cor. of secs. 14, 15, 22 and 23.
- Thence I run
- S.89°56'W., on a true line bet. secs. 15 and 22.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	Over mountainous land; through scattering timber and dense sage brush.
	Desc.
4.00	Begin steep descent, bears N. and S.
23.50	Wood road, bears NE and S W.
38.60	Bottom of hollow, 500 ft. below sec.cor., course S.60°W.
	Asc.
40.00	Wash, 50 lks. wide, 3 ft. deep, course S.60°W. It would be impossible to perpetuate the cor. at this point therefore at
40.95	Set an iron post, 3 ft. long, 1 in in dia., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec.cor.. mkd. on brass cap T 32 S R 9 W W.C. $\frac{1}{4}$ S 15 in N half. and S 22 in S half; from which
	A pinon pine, 8 ins. dia., bears N.27°E., 37 lks. W.C. dist.. mkd. $\frac{1}{4}$ S 15 B T.
	A cedar, 12 ins. dia., bears S.11°E., 127 lks. W.C. dist.. mkd. $\frac{1}{4}$ S 22 B T.
64.70	Top of ridge, 80 ft. above hollow, bears NE and SW.
	Desc.
75.10	Bottom of hollow, 60 ft. below ridge, course S.15°W.
	Asc.
80.00	The cor. of secs. 15, 16, 21, and 22. Land, mountains steep and rough with general slope to the west and southwest. Soil, sand mixed with some clay and gravel; 3rd rate, about $1\frac{1}{2}$ ft. deep. with hard clay subsoil. Timber, cedar and pinon pine. Undergrowth, sage brush. No grass. Mountainous land, or land covered with dense undergrowth, 80.00 chs.

December 13, 1910.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

December 14, 1910: At 8 h 54 m a.m., l.m.t., I set off $38^{\circ}02'N$ on the lat.arc; $23^{\circ}10'S.$, on the decl.arc; and determine a meridian with the solar, at the cor.of secs.15,16,21, and 22.

Thence I run

N. $0^{\circ}1'W.$, betsecs.15 and 16.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Asc.

11.50 Top of ridge, 100 ft.above cor., bears N. $30^{\circ}E.$ and S. $30^{\circ}W.$

Desc.

23.00 Bottom of hollow, 150 ft.below ridge, course S. $40^{\circ}W.$

Asc.

40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 16 in W half and S 15 in E half; from which

A cedar, 10 ins.dia., bears N. $45^{\circ}E.$, 33 lks.

dist..mkd. $\frac{1}{4}$ S 15 B.T.

A cedar, 12 ins.dia., bears S. $78^{\circ}W.$, 55 lks.

dist..mkd. $\frac{1}{4}$ S 16 B.T.

76.00 Top of ridge, 250 ft.above hollow, bears NE and SW.

Desc.

80.00 Set an iron post, 3 ft.long, 2 ins.in dia., 28 ins.in the ground, for cor.of secs.9,10,15, and 16,mkd.on brass cap

T 32 S S 9 in NW.

R 9 W S 10 in NE.

S 15 in SE.; and

S 16 in SW.quadrants; from which

A cedar, 6 ins.dia., bears N. $49^{\circ}E.$, 83 lks.

dist..mkd.T 32 S R 9 W S 10 B.T.

A cedar, 9 ins.dia., bears S. $18^{\circ}E.$, 30 lks.

dist..mkd.T 32 S R 9 W S 15 B.T.

A pinon pine, 8 in .dia., bears S. $66^{\circ}W.$, 47 lks.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

dist..mkd.r 32 S R 9 W S 16 B T.

A pinon pine, 6 ins.dia., bears N.19°W., 41 lks.

dist..mkd.T 32 S R 9 W S 9 B T.

Land, mountainous and broken, general southwest slope and drainage.

Soil, rich sandy loam about 2 ft. deep, mixed with some gravel.

Subsoil, clay and gravel.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

N.89°56'E., on a random line betsecs.10 and 15.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.02 Intersect N.and S.line, 14 lks.S.outh of the cor.of secs. - 10, 11, 114 and 15.

Thence I run S.89°50'W., on a true line betsecs.10 and 15.

Over mountainous land; through heavy cedar and pinon pine timber and dense sage brush.

Asc.

16.40 Top of divide ridge between Parowan and Cedar Valleys, 250 ft.above cor., bears N.and S.

Desc.

40.01 Set an iron post, 3 ft.long, 1 in.in dia., 20 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 10 in N half and S 15 in S half; from which

A cedar, 16 ins.dia., bears N.47°W., 10 lks.

dist..mkd. $\frac{1}{4}$ S 10 B T.

A cedar, 6 ins.dia., bears S.49°E., 38 lks.

dist..mkd. $\frac{1}{4}$ S 15 B T.

41.50 Bottom of hollow, 200 ft.below ridge, course SW.

Asc.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	
75.00	Top of ridge, 400 ft. above hollow, bears N.30°E. and S.30°W.
	Desc.
80.02	The cor. of secs. 9, 10, 15, and 16. Land, mountainous south, slope and southwest drainage. Soil, sandy loam about 2 ft. deep, mixed with volcanic rock Subsoil, clay and gravel. Timber, cedar and pinon pine. Undergrowth, sage brush. Some good grass. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.02 chs.
	December 14, 1910: At the noon hour the sky is overcast and solar observations are impossible.
	N.0°1'W., bet. secs. 9 and 10.
	Over mountainous land; through heavy cedar and pinon pine timber.
	Desc.
30.00	Leave timber, bears NE and SW.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{2}$ S 9 in W half and S 10 in E half; dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
65.00	Bottom of hollow, 400 ft. below sec.cor., course W.
	Asc.
72.00	Top of spur, 40 ft. above hollow, bears E. and W.
	Desc.
76.40	Enter heavy cedar and pinon pine timber, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins in the dia., 20 ins. in the ground, on solid rock and surrounded by mound of earth and stone, for cor.of secs. 3, 4, 9, and 10, mkd.on brass cap

Subdivision of T.32 S., R.9 W.-Continued.

Chains	T 32 S S 6 in NW. R 9 W S 3 in NE. S 10 in SE.; and S 9 in SW. quadrants; from which A cedar, 12 ins. dia., bears N.59°E., 113 lks. dist..mkd. T 32 S R 9 W S 3 B T. A cedar, 14 ins. dia., bears S.61°E., 92 lks. dist..mkd. T 32 S R 9 W S 10 B T. A cedar, 10 ins. dia., bears S.10°W., 83 lks. dist..mkd. T 32 S R 9 W S 9 B T. A cedar, 4 ins. dia., bears N.44°W., 420 lks. dist..mkd. T 32 S R 9 W S 4 B T.
	Land, mountainous west slope and drainage.
	Soil, sandy clay mixed and covered with lava rock; subsoil, clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

December 14, 1910.

December 15, 1910: At 8 h 55 m a.m., l.m.t., I set off 58°03' N., on the lat.arc; 23°13' S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs.3, 4, 9, and 10. Thence I run

N.89°50'E., on a random line bet.secs.3 and 10.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.04 Intersect N. and S.line, 5 lks.N. of the cor.of secs.2, 5, 10, and 11.

Thence I run

S.89°52'W., on a true line bet.secs.3 and 10.

Over mountainous land; through heavy timber and scattering

Subdivision of T.32 S., R.9 W.-Continued.

- Chains undergrowth.Desc.
- 11.50 Bottom of hollow, 300 ft. below sec.cor., course S.
- Asc.
- 29.00 Top of spur, 60 ft. above hollow, bears N.75°E. and S.75°W.
- Desc.
- 47.02 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 3 in N half and S 10 in S half; from which
- A cedar, 5 ins. dia., bears N.39° E., 106 lks.
dist.. mkd. $\frac{1}{4}$ S 3 B T.
- A cedar, 5 ins. dia., bears S.49° E., 116 lks.
dist.. mkd. $\frac{1}{4}$ S 10 B T.
- 62.55 Road from Milford to Paragonah, bears NW. and SE.
- 75.00 Bottom of hollow, 80 ft. below spur, course NW.
- Asc.
- 80.04 The cor.of secs.3,4,9 and 10.
- Land, mountainous, ridges and hollows.
- Soil, black sandy loam mixed with granite rock, hard rocky subsoil.
- Timber, cedar and pinon pine.
- Undergrowth, sage brush.
- Very little grass.
- Mountainous or heavily timbered land, 80.04 chs.
- December 15, 1910: At this cor. I set off 23°14'S., on the decl.arc; and at 11 h 55 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°03'N., which is the proper lat.nearly.
-
- For reasons already explained,
I run

Subdivision of T.32 S., R.9 W.-Continued.

Chains

N.0°02'W., on a true line bt. secs.3 and 4.

Over mountainous land, through dense sage brush.

Desc.

- 4.00 Bottom of hollow, 30 ft. below sec.cor., course W.
Continue descent.
- 5.50 Road from Milford to Paragonah, bears E. and W.
- 19.00 Enter heavy timber, bears E. and W.
- 40.00 Set an iron post, 3 f .long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ se.cor..mkd.on brass cap $\frac{1}{4}$ S 4 in W half and S 3 in E half;from which
A cedar, 6 ins.in dia., bears S.5°E., 207 lks.
dist..mkd. $\frac{1}{4}$ S 3 B T.
A cedar, 7 ins.in dia., bears S.45°W., 169 lks.
dist..mkd. $\frac{1}{4}$ S 4 B T.
- 44.40 Bottom of hollow, 90 ft. below sec.cor., course S.50°W.
Asc.gradually.
- 66.20 Begin abrupt ascent, bears E. and W.
- 85.70 Intersect N.bdy.of Tp.2.58 chs. W.of the cor.of secs. 3,4,33 and 34, heretofore described.
Set an iron post, 3 ft.long, 2 ins.in dia., 20 ins.in the ground and surrounded by mound of earth and stone,for closing cor.of secs.3 and 4..mkd.on brass cap
C C T 31 S R 9 W S 33 S 34 in N half ;
R 9 W S 3 in SE;and
T 32 S S 4 in SW;quadrants;from which
A cedar,10 ins.in dia., bears S.55°E., 12 lks.
dist..mkd. T 32 S R 9 W S 3 B T.
A cedar,6 ins.in dia., bears S.15°W., 7 lks.
dist..mkd. T 32 S R 9 W S 4 B T.
- Note: I destroy the mks on the cor.of secs.3,4,33 and 34 which pertain to secs.3 and 4.
- Land,rolling,mountainous.
- Soil,sandy and clay loam and gravelly with gravelly and rocky subsoil.

Subdivision of T. 32 S., R. 9 W.-Continued.

Chains

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Very little grass.

Mountinous or heavily timbered land, or land covered with dense undergrowth, 85.70 chs.

December 15, 1910.

December 16, 1910: At 8 h 55 m a.m., l.m.t., I set off $37^{\circ}59'$ N., on the lat., arc; $23^{\circ}16'S.$, on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 4, 5, 32 and 33, on S.bdy. of Tp. heretofore described.

Hence I run

N.0'1'W., bet. secs. 32 and 33.

Over rolling mountainous land, through scattering timber and dense sagebrush.

Asc.

20.00 Top of ridge, 65 ft. above hollow, bears E. and W.

Desc.

23.85 Bottom of hollow, 35 ft. below ridge, course W.

Asc.

33.00 Enter heavy timber, bears E. and W.

35.00 Top of spur, 55 ft. above hollow, bears E. and W.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on cemented gravel, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor. .mkd. on brass cap $\frac{1}{4}$ S 32 in W half and S 33 in E half; from which

A. pinon pine, 5 i s. in dia., bears S. $7^{\circ}30'E.$, 25 lks. dist..mkd. $\frac{1}{4}$ S 33; B. T.

Subdivision of T.32 S. R.9 W. -Continued.

Chains

A cedar, 8 ins. in dia., bears S 33°30' W., .55 lks.
dist..mkd. ✓ S 32 B T.

42.50 Bottom of hollow, 65 ft. below ridge, course NW.

Asc.

47.00 Top of spur, 50 ft. above hollow, bears E. and W.

Desc.

50.10 Bottom of hollow, 40 ft. below ridge, course NW.

Asc.

56.60 Top of ridge, 60 ft. above hollow, bears NW. and SE.

Desc.

✓ 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on cemented gravel, and surrounded by mound of earth and stone..for cor.of secs. 28, 29, 32 and 33..mkd. on brass cap

✓ T 32 S S 29 in NW.

✓ R 9 W S 28 in NE.

✓ S 33 in SE; and

✓ S 32 in SW, quadrants; from which

A pinon pine, 6 ins. in dia., bears N.47°E., .49

lks.dist..mkd. T 32 S R 9 W S 28 B T.

A pinon pine, 8 ins. in dia., bears S.10°E., .58 lks.

✓ dist..mkd. T 32 S R 9 W S 33 B T.

A pinon pine, 8 ins. in dia., bears S.27°W., .61

lks.dist..mkd. T 32 S R 9 W S 32 B T.

A pinon pine, 7 ins. in dia., bears N.6°W., .35

lks.dist..mkd. T 32 S R 9 W S 29 B T.

Land, rough rocky mountains.

Soil, black loam mixed with granite stone with a hard rocky subsoil.

Timber, cedar and pinon pine.

very little grass.

Undergrowth, sage brush.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 52 S., R. 9 W.-Continued.

Chains

- East on a random line bet.secs.28 and 33.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.04 Intersect N.and S.line 2 lks. S.of the cor.of secs. 27.28,33 and 34.
Thence I run S.89°59'W.,on a true line bet.secs.28 and 33.
Over mountainous land through heavy timber.
Desc.along S.slope of ridge.
- 25.00 Bottom of hollow,185 ft.below sec.cor.,course NW.
Asc.
- 29.50 Top of ridge,50 ft.above hollow,bears N.and S.
Desc.
- 34.40 Bottom of hollow,60 ft.below ridge,course N.
Asc.
- 40.02 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 28 in N half and S 33 in S half; from which
A pinon pine,8 ins.in dia.,bears N.24°30'E.,
43 lks.dist..mkd. $\frac{1}{4}$ S 28 B.T.
- A pinon pine,7 ins.in dia.,bears S.81'E.,21 lks.dist..mkd. $\frac{1}{4}$ S 33 B.T.
- 48.00 Top of ridge,175 ft.above hollow,bears NE.and SW.
Desc.abruptly.
- 80.04 The cor.of secs.28,29,32 and 33, 270 ft.below ridge.
Land,rough,mountainous,
Soil,black loam mixed with granite stone with a hard rocky subsoil.
Timber,cedar and pinon pine.
Very little grass.
Mountainous or heavily timbered land,80.04 chs.

Subdivision of T. 32 S., R. 9 W.-Continued.

Chains

December 16, 1910: At the noon hour the sky is overcast and solar observations are impossible.

N.0°S'W., bet. secs. 28 and 29.

Over rolling mountainous land, through heavy timber.

Desc.

14.00 Bottom of hollow, 50 ft. below sec.cor., course NW.

Asc.

19.50 Top of spur, 40 ft. above hollow, bears NW. and SE.

Desc.

23.60 Bottom of hollow, 35 ft. below spur, course NW.

Asc.

27.20 Top of ridge, 70 ft. above hollow, bears E. and W.

Desc.

30.70 Bottom of hollow, 30 ft. below ridge, course NW.

Asc.

35.00 Top of ridge, 40 ft. above hollow, bears NW. and SE.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on cemented gravel, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.. mkd. on brass cap.
S 29 in W half and S 28 in E half; from which

A cedar, 5 ins. in dia., bears S.71°E., 34 lks.
dist.. mkd. $\frac{1}{4}$ S 28 B T.

A cedar, 5 ins. in dia., bears N.16°45'W., 53 lks.
dist.. mkd. $\frac{1}{4}$ S 29 B T.

45.10 Bottom of hollow, 60 ft. below ridge, course NW.

Asc.

50.00 Top of ridge, 55 ft. above hollow, bears NW. and SE.

Desc.

70.00 Enter bottom of hollow, 70 ft. below ridge, course N.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

Desc.along hollow.

- 75.00 Leave hollow, course NW.
Asc.
80.00 Set an iron post, 3 ft.long, 2 ins.in dia., 20 ins.in the ground, on solid rock bottom and surrounded by mound of earth and stone, for cor.of secs.20,21,28 and 29..
mks.on brass cap

T 32 S S 20 in NW.

R 9 W S 21 in NE.

S 28 in SE;and

S 29 in SW,quadrants;from which

A pinon pine, 10 ins.in dia., bears N.46°45'E.,
44 lks.dist..mkd. T 32 S R 9 W S 21 B T.

A pinon pine, 14 ins.in dia., bears S.47°30'E.,
72 lks.dist..mkd. T 32 S R 9 W S 28 B T.

A pinon pine, 7 ins.in dia., bears S.54°W.,
71 lks.dist..mkd. T 32 S R 9 W S 29 B T.

A pinon pine, 6 ins.in dia., bears N.36°45'W.,
50 lks.dist..mkd. T 32 S R 9 W S 20 B T.

Land,rolling mountainous.

Soil,black loam 12 ins.deep mixed with sandstone boulders
with a hard rocky subsoil.

Timber,cedar and pinon pine.

Very little grass.

Mountainous or heavily timbered land, 80.00 chs.

December 16, 1910.

December 17, 1910:At 8 h 56 m a.m.,l.m.t.,I set off
38°01'N.,on the lat.arc;23°19'S.,on the decl.arc;
and determine a meridian with the solar at the cor.of secs

Subdivision of T.32 S., R.9 N.-Continued.

Chains	
	20, 21, 28 and 29.
	Thence I run
	N.89°59'E., on a random line bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{2}$ sec.cor.
80.04	Intersect the N. and S. line at the cor. of secs. 21 and 22, 27 and 28.
	Thence I run
	S.89°59'W., on a true line bet. secs. 21 and 28.
	Over mountainous land, through heavy timber and scatter- ing sage brush.
	Asc.
7.00	Top of ridge, 60 ft. above sec.cor., bears N.30W. and S.30°E
	Desc.
13.70	Bottom of hollow, 75 ft. below ridge, course N.10°W.
	Asc.
23.00	Top of ridge, 100 ft. above hollow, bears NW. and SE.
	Desc.
35.30	Bottom of hollow, 120 ft. below ridge, course N.20°W.
	Asc.
40.02	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 21 in N half and S 28 in S half; from which A cedar, 6 ins. in dia., bears N.35°W., 98 lks. dist.. mkd. $\frac{1}{4}$ S 21 B T.
	A pinon pine, 6 ins. in dia., bears S.24°W., 126 lks. dist.. mkd. $\frac{1}{4}$ S 28 B T.
50.00	Top of spur, 30 ft. above hollow, bears N.20°W. and S.20°E.
	Desc.
67.00	Bottom of hollow, 100 ft. below ridge, course NW. Asc.
74.00	Top of ridge, 30 ft. above hollow, bears NW. and SE. Desc.
80.04	The cor. of secs. 20, 21, 28, 29. Land, mountainous.
	Soil, clay with volcanic shale rock on surface with sub- soil hard pan of gravel and rock.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	
	Timber, cedar and pinon pine. 10 chs. 83, 13, 08 but I forgot
	Undergrowth, sage brush. 10 chs. 83, 13, 08 Very little grass. 10 chs. 83, 13, 08
	Mountainous or heavily timbered land, 80.04 chs. desc. 10 chs. 83, 13, 08
	Over mountainous land, through heavy timber and scatter- ing sage brush. 10 chs. 83, 13, 08
Asc.	
6.00	Top of spur, 20 ft. above sec.cor., bears NW. and SE. desc.
12.00	Bottom of hollow, 30 ft. below ridge, course NW. Asc.
20.00	Top of spur, 30 ft. above hollow, bears N.70°W. and S.70°E. desc.
31.20	Bottom of hollow, 40 ft. below spur, course S.80°W. Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on cemented gravel and surrounded by mound of earth and stone, for 1 sec.cor.. mkd.on brass cap $\frac{1}{2}$ S 20 in W half and S 21 in E half; from which A cedar, 6 ins. in dia., bears N.36°E., 17 lks. dist.. mkd. $\frac{1}{4}$ S 21 B T. A cedar, 8 ins. in dia., bears S.50°W., 37 lks. dist.. mkd. $\frac{1}{4}$ S 20 B T. 58.20 Top of ridge, 100 ft. above hollow, bears E. and W. desc.
70.55	Bottom of hollow, 160 ft. below ridge, course E. Asc.abruptly.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground on solid rock bottom and surrounded by mound of earth and stone for the cor.of secs.16,17,20 and 21.. mkd.on

Subdivision of T.32 S., R.9 W.-Continued.

Chains

brass cap

T 32 S S 17 NW.

R 9 W S 16 in NE.

S 21 in SE; and

S 20 in SW. quadrants; from which

A cedar, 7 ins. in dia., bears N. 11° E., 82 lks.

dist. mkd. T 32 S R 9 W S 16 B T.

A cedar, 7 ins. in dia., bears S. 5° E., 62 lks.

dist. mkd. T 32 S R 9 W S 21 B T.

A cedar, 10 ins. in dia., bears S. 53° W., 115 lks.

dist. mkd. T 32 S R 9 W S 20 B T.

A cedar, 10 ins. in dia., bears N. 23° W., 103 lks.

dist. mkd. T 32 S R 9 W S 17 B T.

Land, mountainous.

Soil, sandy loam, clay and gravelly with a subsoil gravelly.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Very little grass.

Mountainous or heavily timbered land, 80.00 chds.

December 17, 1910: At this cor. I set off $23^{\circ}20'$ S., on the decl. arc; and at 11 h 56 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $38^{\circ}02'$ N., which is the proper lat. nearly.N. $89^{\circ}59'$ E. on a random line bet. secs. 16 and 21.40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line 2 lks. N. of the cor. of secs. 15, 16, 21 and 22.

Thence I run

west on a true line bet. secs. 16 and 21.

Other descriptions: loose, broken heavy soil and

Subdivision of T.32 S., R.9 M.-Continued.

- Chains Over mountainous land, through heavy timber and scattering undergrowth.
- Asc.
- 2.80 Top of ridge, 20 ft. above sec.cor., bears N.10°E. and S. 10°W.
- Desc.
- 16.55 Bottom of hollow, 80 ft. below ridge, course SW.
- Asc.
- 25.00 Top of ridge, 30 ft. above hollow, bears N. and S.
- Desc.
- 37.40 Bottom of hollow, 10 ft. below ridge, course S.
- Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on solid rock bottom and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 16 in N half and S 21 in S half; from which
A cedar, 6 ins. in dia., bears N.39°E., 79 lks.
dist.. mkd. $\frac{1}{4}$ S 21 B T.
A cedar, 8 ins. in dia., bears S:39°E., 119 lks.
dist.. mkd. $\frac{1}{4}$ S 21 B T.
- 45.40 Top of ridge, 30 ft. above hollow, bears N. and S.
- Desc.
- 52.35 Bottom of hollow, 30 ft. above sec. ridge, course S.
- Asc.
- 80.00 The cor.of secs. 16, 17, 20 and 21, 360 ft. above hollow.
Land, mountainous.
Soil, sandy and clay loam and gravelly; 2nd rate.
Timber, cedar and pinon pine.
Undergrowth, sage brush.
Average grass for grazing.
Mountainous or heavily timbered land, 80.00 chs.

December 17, 1910.

John R Stewart

Instrumentman G.I.O.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

December 19, 1910: At 8 h 57 m a.m., l.m.t., I set off $38^{\circ}02'N.$, on the lat.arc; $23^{\circ}23'S.$, on the decl.arc; and determine a meridian with the solar at the cor.of secs. 16, 17, 20 and 21.

Thence I run

$N.0^{\circ}2'W.$ bet.secs. 16 and 17.

Over mountainous land, through heavy timber and scattering sage brush.

Asc.

13.40 Top of ridge, 120 ft. above sec.cor., bears $N.70^{\circ}W.$ and $S.70^{\circ}E.$

Desc.

26.50 Bottom of hollow, 300 ft. below ridge, course $S.70^{\circ}E.$

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on cemented gravel and surrounded by mound of earth and stone for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4} S 17$ in W half and S 16 in E half; from which

A cedar, 12 ins. in dia., bears $N.88^{\circ}E.$, 47 lks.

dist..mkd. $\frac{1}{4} S 16$ B.T.

A cedar, 9 ins. in dia., bears $N.76^{\circ}W.$, 117 lks.

dist..mkd. $\frac{1}{4} S 17$ B.T.

42.20 Top of ridge, 300 ft. above hollow, bears $N.80^{\circ}W.$ and $N.60^{\circ}E.$

Desc.

50.40 Bottom of hollow, 200 ft. below ridge, course $N.80^{\circ}W.$ for about 5.00 chs. thence NW.

Asc.

69.60 Top of ridge, 400 ft. above hollow, bears E. and W.

Desc.abruptly.

80.00 Point 400 ft. below ridge,

Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, on solid rock bottom and surrounded by mound of stone, for the cor.of secs. 8, 9, 16 and 17..mkd.on brass

Subdivision of T. 32 S., R. 9 W.-Continued.

Chains

T 32 S S 8 in NW.

R 9 W S 9 in NE.

S 16 in SE; and

S 17 in SW; quadrants; from which

A cedar, 16 ins. in dia., bears N.16°30' E., 543 lks.

dist..mkd. T 32 S R 9 W S 9 B T.

A cedar, 12 ins. in dia., bears S.13°E., 81 lks.

dist..mkd. T 32 S R 9 W S 16 B T.

A cedar, 12 ins. in dia., bears S.3°W., 31 lks.

dist..mkd. T 32 S R 9 W S 17 B T.

A cedar, 8 ins. in dia., bears N.45°W., 200 lks.

dist..mkd. T 32 S R 9 W S 8 B T.

Land, mountainous. Soil, yellow ochre, yellow ochre, 80.00 chs.

Soil, sandy and clay loam with lava boulders and rock on surface. Hard subsoil of clay and gravel.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Very little grass.

Mountainous or heavily timbered land, 80.00 chs.

December 19, 1910: At this cor. I set off 23°23'S., on the decl. arc; and at 11 h 57 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°03' N., which is the proper lat. nearly.

East on a random line bet. secs. 9 and 16.

40.00 Set temp. 1 sec.cor.

79.98 Intersect the N. and S. line 5 lks. S. of the cor. of secs.

9, 10, 15 and 16.

Thence I run

8.89°58' W., on a true line bet. secs. 9 and 16.

Over mountainous land, through scattering timber, and

Subdivision of T.32 S., R.9 W.-Continued:

Chains	scattering undergrowth.
Des.	
4.20	Head of hollow, 50 ft. below sec.cor., course N.
Asc.	
13.40	Top of ridge, 150 ft. above hollow, bears N.30°E. and S.30°W.
Desc.	
/33.50	Leave scattering timber, bears N. and SW.
39.99	Bottom of hollow, 400 ft. above ridge, course N.20°W. Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 9 in N half and S 16 in S half; dig pits, 18x18x12 ins., E. and W. of cor. 3 ft. dist. and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
46.00	Enter timber, bears N. and S.
✓ 79.98	The cor. of secs. 8, 9, 16, and 17. Land, mountainous. Soil, sandy and clay loam with lava rocks on surface. Hard subsoil of clay and gravel. Timber, cedar and pinon pine. Undergrowth, sage brush. Very little grass. Mountainous land, 79.98 chs.
December 19, 1910.	
<hr/>	
December 20, 1910: At 8 h 57 m a.m., l.m.t., I set off 38° 07' N., on the lat.arc; 23°24'S., on the decl.arc; and determine a meridian with the solar at the cor.of secs. 8, 9, 16 and 17. Thence I run	

Subdivision of T.32 S., T.9 E.-Continued.

Chains N.0°2'W., bet. secs.8 and 9.

Over rolling mountainous land, through scattering timber and scattering sagebrush.

Desc.

33.00 Bottom of hollow, 70 ft. below sec.cor., course NW.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on solid rock bottom and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{2}$ S 8 in W half and S 9 in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor.

52.40 Top of spur, 150 ft. above hollow, bears E. and W.

Desc.

55.60 Bottom of hollow, 60 ft. below spur, course W.

Asc.

65.00 Top of ridge, 100 ft. above hollow, bears West and SE.

Desc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on solid rock bottom and surrounded by mound of earth and stone, for the cor.of secs.4,5,8 and 9.. mkd.on brass cap

T 32 S S 5 in NW.

R 9 W S 4 in NE.

S 9 in SE; and

S 8 in SW; quadrants, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor.

Land: rolling mountainous.

Soil, sandy and clay loam; 3rd rate, with hard clay subsoil.

Timber, cedar and p'non pine.

Undergrowth, sage brush.

Very little grass.

Mountainous land, \$0.00 chs.

Subdivision of T.32.S., R.9.W.-Continued.

Chains.	
	N.89°58' E., on a random line, bet. secs. 4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.96	Intersect N. and S. line 7 lks. S. of the cor. of secs. 3, 4, 9, and 10. Thence I run S.89°55' W., on a true line bet. secs. 4 and 9. Over mountainous land, through dense undergrowth. Desc.
18.00	Enter heavy timber, bears N. nad S.
38.98	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on cemented gravel and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 4 in N half and S 9 in S half; from which A cedar, 4 ins. in dia., bears N.21°W., 114 lks. dist.. mkd. $\frac{1}{4}$ S 4 B T.
	A cedar, 4 ins. in dia., bears S.59°E., 122 lks. dist mkd. $\frac{1}{4}$ S 9 B T.
46.00	Leave timber, bears N. and S.
48.75	Bottom of hollow, 75 ft. below $\frac{1}{4}$ sec.cor., course NW. Asc.
61.00	Top of ridge, 70 ft. above hollow, bears N.70°W. and S.70°E. Desc.
64.10	Bottom of hollow, 30 ft. below ridge, course N.20°W. Asc.
75.00	Top of ridge, 50 ft. above hollow, bears N.70°W. and S.70°E. Desc.
79.10	Bottom of hollow, 40 ft. below ridge, course N. Asc.
79.96	The cor. of secs. 4, 5, 8 and 9.

Subdivision of T.32 S., R.9 E.-Continued.

Chians

Land, mountainous.

Soil, sandy and clay loam with lava rock on surface; 2nd
rate. Gravelly and clay subsoil.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Very little grass.

Mountainous or heavily timbered land, or land covered
with dense undergrowth, 79.96 chs.

December 20, 1910: At this cor. I set off 25°25' S., on
the decl. arc; and at 11 h 57 m a.m., l.m.t., I observe
the sun on the meridian the resulting lat. is 38°03' N.,
which is the proper lat. nearly. /

For reasons already explained, I run

N.0°3' W., bet. secs. 4 and 5.

Over rolling mountain us land, through dense sage brush.

Desc.

9.25 Bottom of hollow, 60 ft. below sec.cor., course W.

Asc.

15.10 Road from Paragonah to Milford, bears E. and W.

28.50 Top of ridge, 125 ft. above hollow, bears E. and W.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for 4 sec.cor.. mxd. on brass cap 4 S 5 in W
half and S 4 in E half; and raise a mound of stone, 2 ft.
base, 1 1/2 ft. high, w. of cor.

40.75 Bottom of hollow, 150 ft. below ridge, course SW.

Asc.

60.00 Top of ridge, 160 ft. above hollow, bears NE. and S7.

Desc.

71.25 End of hollow, 100 ft. below ridge, course S7.

Subdivision of T. 32 S., R. 9 W.-C. continued.

Chains

Asc.

80.29 Road, bears E. and W.

85.84 intersect N.bdy.of Tp. 2.29 chs.w/of the cor.of secs.

4, 5, 32 and 33, heretofore described.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor.of secs. 4 and 5.. mkd.on brass cap

C C T 31 S R 9 W S 32 S 33 in N half

R 9 W S 4 in SE, and

T 32 S S 5 in SW, quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high S.of cor.
land, mountainous.

Soil, clay and gravelly loam with a subsoil of gravel.

No timber.

Undergrowth, sage brush.

very little grass.

Mountainous land, or land covered with dense undergrowth,

85.84 chs.

December 20, 1910.

December 16, 1910: At 8 h 55 m a.m., l.m.t., I set off $37^{\circ}59'N.$, on the lat.arc; $23^{\circ}16'S.$, on the decl.arc; and determine a meridian with the solar at the cor.of secs. 5, 6, 31 and 32, on S.bdy.of Tp. heretofore described.

Thence I run

N. $0^{\circ}1'W.$, bet.secs. 31 and 32.

Over rolling mountainous land; through heavy ring timber and dense undergrowth.

Asc.

Subdivision of T.32 S. R.9 W.-Continued.

- 0.50 Top of ridge, 10 ft. above sec. cor., bears E. and W.
Desc.
15.00 Bottom of hollow, 50 ft. below ridge, course W.
Asc.
21.70 Top of low ridge, 40 ft. above hollow, bears E. and W.
Desc.
30.00 Bottom of hollow, 55 ft. below ridge, course W.
Asc.
38.30 Top of ridge, 40 ft. above hollow, bears E. and W.
Desc.
40.00 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the
ground, on cemented gravel and surrounded by mound of
earth and stone, for 1 sec. cor.. mkd. on brass cap $\frac{1}{4}$ S
 $\frac{31}{4}$ in W half and S 32 in E half; from which
A cedar, 8 ins. in dia., bears N. 61° E., 27
lks. dist.. mkd. $\frac{1}{4}$ S 32 B. T.
A pinon pine, 7 ins. in dia., bears N. 83° W., 26
lks. dist.. mkd. $\frac{1}{4}$ S 30 B. T.
41.20 Bottom of hollow, 30 ft. below ridge, course E.
Asc.
46.50 Wood road, bears NE. and SW.
47.00 Leave heavy and enter scattering timber and enter
dense undergrowth, bears E. and W.
80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the
ground, for the cor. of secs. 29, 30, 31 and 32.. mkd. on brass
cap
T 32 S S 30 in NW.
R 9 W S 29 in NE.
S 32 in SE; and
S 31 in SW, quadrants; from which
A cedar, 6. ins. in dia., bears N. 33° E., 131 lks. dist
mkd. T 32 S R 9 W S 29 B. T.
A cedar, 14 ins. in dia., bears S. 3° W., 143 lks. dist
mkd. T 32 S R 9 W S 31 B. T.
A cedar, 8 ins. in dia., bars N. 41° 40' W., 130 lks.

Subdivision of T. 32 S., R. 9 W.-Continued.

Chains

mkd. T 32 S R 9 W S 30 B.T.

No other trees within limits in Sec.32; dig pit, 18x18x12 ins. in sec. 32 $5\frac{1}{2}$ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling mountains.

Soil, black loam with a few sandstone boulders; 2nd rate.

Subsoil gravelly.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Very little grass.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

East on a random line bet. secs. 29 and 32.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

80.02 Intersect N. and S. line 2 lks. N. of the cor. of secs. 28, 29, 32 and 33.

Thence I run

N. $89^{\circ} 50' W.$, on a true line bet. secs. 29 and 32.

Over mountainous land, through heavy timber.

Desc.

0.15 Head of hollow, 5 ft. below sec. cor., course N. $70^{\circ} W.$

Asc.

4.90 Top of ridge, 40 ft. above hollow, bears N. $65^{\circ} W.$ and S. $65^{\circ} E.$

Desc.

6.70 Bottom of hollow, 30 ft. below ridge, course NW.

Asc.

15.00 Top of ridge, 50 ft. above hollow, bears NW. and SE.

Desc.

Subdivision of T.32 S. R.9 W.-Continued.

Chains

20.50 Bottom of hollow, 45 ft. below ridge, course NW.

Asc.

23.50 Top of ridge, 60 ft. above hollow, bears N. and S..

Desc.

27.80 Bottom of hollow, 50 ft. below ridge, course N.

Asc..

31.60 Top of spur, 65 ft. above hollow, bears N. and S.

Desc.

40.01 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 29 in N half and S 32 in S half; from whichA pinon pine, 6 i s. in dia., bears N.5° W., 5 lks. dist.. mkd. $\frac{1}{4}$ S 29 B T.A pinon pine, 7 ins. in dia., bears S.8° E., 12 lks. dist.. mkd. $\frac{1}{4}$ S 32 B T.

50.00 Enter broad hollow, 100 ft. below ridge, bears N. and S.

Asc.

62.50 Wood road, bears N. and S.

Leave broad hollow, begin ascent, bears N. and S.

80.02 The cor. of secs. 29, 30, 31 and 32.

Land, mountainous.

Soil, sandy loam mixed with sandstone boulders; 3rd rate.

Subsoil hard and rocky gravel.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.02 chs.

December 16, 1910: At the noon hour the sky is overcast and observations are impossible.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	West on a random line bet.secs.50 and 51.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
78.40	Intersect W.bdy.of tp.at the cor.of secs.25,30,31 and 36, heretofore described. Thence I run East on a true line bet.secs.30 and 31. Over rolling mountainous land, through scattering timber. Asc.
24.60	Enter heavy timber,bears N.and S.
28.40	Top of ridge,60 ft.above sec.cor.,bears N.and S. Desc.
30.90	Bottom of hollow,40 ft.below ridge,course N. Asc.
36.40	Top of ridge,50 ft.above hollow,bears NW.and SE. Desc.
38.40	Set an iron post,3 ft.long,1 in.in dia.,18 ins.in the ground, on solid rock bottom and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 30 in N half and S 31 in S half;from which A volcanic ledge,10x6x4 ft.above ground on which I mark(X) B O,bears N.36°W.,65 lks.dist. A cedar,6 ins.in dia.;bears S.5°30'E.,66 lks.. mkd. $\frac{1}{4}$ S 31 B T.
48.40	Bottom of hollow,40 ft.below ridge,course NW. Asc.
50.00	Wood road,bears NE.and SW.
72.40	Top of ridge,35 ft.above hollow,bears N.and S. Desc.
78.40	The cor.of secs.29,30,31 and 32,60 ft.below ridge. Land,rolling mountainous. Soil,sandy loam mixed with small sandstone;3rd rate. Hard gravelly subsoil. Timber,cedar and pinon pine. Undergrowth,sage brush. Very little grass....

Subdivision of T.32 S., R.9 W.-Continued.

Chains	Mountainous or heavily timbered land, 78.40 chs.
	December 16, 1910.
	December 17, 1910: At 8 h 56 m a .m., l.m.t., I set off 38°00'N., on the lat.arc; 23°19'S., on the decl.arc; and determine a meridian with the solar at the corlof. secs. 29, 30, 31 and 32.
	Thence I run W.0°6'W., bet. secs. 29 and 30. Over mountainous land, through dense sage brush and heavy timber.
	Asc.
4.30	Top of ridge, 50 ft. above sec.cor., bears NE. and SW.
	Desc.
25.00	Bottom of hollow, 75 ft. below ridge, course NW.
	Asc.
33.95	Granite ledge, 30 ft. high, bears NW and SE.
38.50	Top of rocky ridge, 80 ft. above hollow, bears NE. and SW.
	Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins., in the ground for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 30 in W half and S 29 in E half; from which A cedar, 6 ins. in dia., bears N.80°E., 92 lks. dist. mkd. $\frac{1}{4}$ S 29 B T.
	A cedar, 6 ins. in dia., bears N.84°W., 48 lks. dist.. mkd. $\frac{1}{4}$ S 30 B T.
45.00	Bottom of hollow, 55 ft. below ridge, course SW.
	Asc.
47.80	Top of spur, 75 ft. above hollow, bears NE. and SW.
	Desc.
50.00	Bottom of hollow, 50 ft. below ridge, course SW.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	
	Asc.
53.40	Top of ridge, 65 ft. above hollow, bears NE. and SW.
	Desc.
70.70	Wood road, bears NE. and SW.
72.00	Bottom of hollow, 90 ft. below ridge, course SW.
	Asc.
78.15	Top of ridge, 100 ft. above hollow, bears E. and W.
	Desc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the ground, on solid rock bottom and surrounded by mound of earth and stone, for the cor. of secs. 19, 20, 29 and 30.. mkd. on brass cap
	T 32 S S E 9 in NW.
	R 9 W S 20 in NE.
	S 29 in SE; and
	S 30 in SW; quadrants; from which
	A cedar, 6 ins. in dia., bears N. 46° 30' E., 93 lks. dist.. mkd. T 32 S R 9 W S 20 B T.
	A cedar, 5 ins. in dia., bears S. 48° E., 55 lks. dist.. mkd. T 32 S R 9 W S 29 B T.
	A cedar, 10 ins. in dia., bears S. 22° 30' W., 143 lks. dist.. mkd. T 32 S R 9 W S 30 B T.
	A cedar, 8 ins. in dia., bears N. 66° W., 11 lks. dist. mkd. T 32 S R 9 W S 19 B T.
	Land, mountainous.
	Soil, sandy loam; 3rd rate. Subsoil gravelly and clay.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

Subdivision of T. 32 S., R. 9 W.-Cont. nucd.

Chains S. 89° 59' E., on a random line bet. secs. 20 and 29.

40.00 Set temp. $\frac{1}{4}$ sec. cor. Thence 1 run
80.00 intersect N. and S. line, 7 lks. S. of the cor. of secs.
20, 21, 28 and 29.
S. 89° 58' W., on a true line bet. secs. 20 and 29
Over mountainous land, through heavy timber and dense
undergrowth.

Desc. Bottom of hollow, 150 ft. below sec. cor., course N.

Asc. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor. m d. on brass cap $\frac{1}{4}$ S 20 in N
half and S 29 in S half; from which
A cedar, 5 ins. in dia., bears N. 35° E., 41 lks.
dist.. mkd. $\frac{1}{4}$ S 20 B.T.
A cedar, 7 ins. in dia., bears S. 40° W., 19 lks.
dist.. mkd. $\frac{1}{4}$ S 29 B.T.

43.50 Top of rocky ridge, 70 ft. above hollow, bears N. and S

Desc. Bottom of hollow, 100 ft. below ridge, course NW. Asc.

70.00 Top of ridge, 60 ft. above hollow, bears NE. and SW. Desc.

80.00 The cor. of secs. 19, 20, 29 and 30.
Land, mountainous.
Soil, sandy loam; 3rd rate. Hard rocky subsoil.
Timber, cedar and pinon pine.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous or heavily timbered land or land covered
with dense undergrowth, 80.00 chs.

December 17, 1910: At this cor. I set off 23° 20' S., on the
decl. arc; and at 11 h 56 m a.m., l.m.t., I observe the
sun on the meridian the resulting lat. is 38° 01' N.,

Subdivision ff T.32 S., R.9 W.-Continued.

Chains

which is the proper lat.nearly.

West on a random line bet.secs.19 and 30.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

78.37 Intersect W.bdy.of Tp.at the cor.of secs.19,24,25 and 30,heretofore described.

Thence 1 run

East on a true line bet.secs.19 and 30.

Over rolling mountainous land,through heavy timber and dense undergrowth.

Desc.

7.00 Bottom of hollow,100 ft.below sec.cor.,course S.

Asc.

28.40 Top of ridge,1'0 ft.above hollow,bears NE.and S".

✓ Desc.

38.37 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 19 in N half and S 30 in S half;from which

A cedar,8 ins.in dia.,bears N.20°30'W.,32 lks.

dist..mkd. $\frac{1}{4}$ S 19 B T.

A cedar,9 ins.in dia.,bears S.50°W.,45 lks.dist.
mkd. $\frac{1}{4}$ S 30 B T.

70.00 Bottom of hollow,150 ft.below ridge,course SW.

Asc.

78.37 The cor.of secs.19,20,29 and 30.

Land,rolling mountains.

Soil,sandy loam mixed with sandstone boulders!Hard
rocky subsoil.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land or land covered

Subdivision of T. 32 R. 9 W. Continued.

Chains with dense undergrowth, 78.37 chs.

- ✓ 1. Top of ridge, 50 ft. above hollow, bears N.
E. 40° 30' E., dist. 100.0
H. 0° 2' W., bet. secs. 19 and 20.
Over mountainous land, through heavy timber and dense
undergrowth.
- Desc. Bottom of hollow, 100 ft. below sec. cor., course W. for
ASC.
- 25.00 Top of ridge, 125 ft. above hollow, bears E. and W.
Desc. Leave heavy and enter scattering timber, bears E. and W.
- 39.50 Bottom of hollow, 100 ft. below ridge, course W. for 3.00
chs. then S. SW.
ASC.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap. $\frac{1}{2}$ S. 19 in W
half and S 20 in E half; dig pits, 18x18x12 ins. S. and S. of
post, $3\frac{1}{2}$ ft. dist. and raise a mound of earth, $3\frac{1}{2}$ ft.
base, $1\frac{1}{2}$ ft. high, W. of cor.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 18 ins. in the
ground, on cemented gravel, and surround by mound
of stone, for the cor. of secs. 17, 18, 19, and 20.. mkd.
on brass cap
- T 32 S S 18 in NW.
R 9 7 S 17 in NE.
S 20 in SW; and
S 19 in SW; quadrants; from which
A cedar, 5 ins. in dia., bears N. 40° 30' E., 71 lks.
dist. mkd. T 32 S R 9 W S 17 B.T.
A cedar, 12 ins. in dia., bears S. 46° E., 37 lks.
dist. mkd. T 32 S R 9 7 S 20 B.T.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

A cedar, 12 ins. in dia., bears S.47°30'W.,
 135 lks. dist..mkd. T 32 S R 9 W S 19 B T.
 A cedar, 10 ins. in dia., bears N.81°W., 75 lks.
 dist..mkd. T 32 S R 9 W S 18 B T.

Land, rolling mountains.

Soil, sandy loam; 2nd rate. Subsoil hard and rocky.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land or land covered
with dense undergrowth, 80.00 chs.

December 17, 1910.

December 22, 1910: At 8 h 58 m a.m., l.m.t., I set off
 38°02'N., on the lat.arc; 23°25'S., on the decl.arc; and
 determine a meridian with the solar at the cor.of
 secs. 17, 18, 19 and 20.

Thence I run

N.89°58'E., on a random line bet.secs. 17 and 20.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

79.98 Intersect the N. and S.line 12 lks.S. of the cor.of secs.
 20, 21, 28 and 29.

Thence I run

S.89°53'W., on a true line bet.secs. 17 and 20.

Over mountainous land, through heavy timber and
dense undergrowth.

Asc.

5.20 Top of ridge, 60 ft.above sec.cor., bears NE. and SW.

Desc.

Subdivision of T.32 S., R.9 W.-Continued.

Chains

39.99 Bottom of hollow 250 ft. below ridge, course S.40°W.
Set an iron post, 3 ft. long, 1 in. in dia..18 ins. in the
ground, on solid rock bottom and surrounded by mound of
earth and stone, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 17
in N half and S 20 in S half; from which

A cedar, 8 ins. in dia., bears N.17°E., 147 lks.
dist..mkd. $\frac{1}{4}$ S 17 B T.

A cedar, 10 ins. in dia., bears S.15°W., 75 lks.
dist..mkd. $\frac{1}{4}$ S 20 B T.

Asc.

63.20 Top of ridge, 190 ft. above hollow, bears NW. and SW.

Desc.

72.50 Bottom of hollow, 120 ft. below ridge, course S.

79.98 The cor.of secs.17,18,19 and 20.

Land, mountainous.

Soil, sandy clay soil with sandstone boulders; 2nd rate
Hard subsoil.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Very little grass.

Mountinous or heavily timbered land, or land covered
with dense undergrowth, 79.98 chs.

West on a random line bet.secs.18 and 19.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

78.50 Intersect W.bdy.of typ.5 lks.N. of the cor.of secs.13,
18,19 and 24, heretofore described.

Thence 1 run

N.89°58'E., on a true line bet.secs.18 and 19.

Over mountainous land, through heavy timber and dense

Subdivision of T.32 S., R.9 E.-Continued.

Chains	
	undergrowth.
	Asc.
8.30	Top of spur 20 ft. above sec.cor. bears N. and S., Desc.
28.70	Bottom of hollow, 40 ft. below sec.cor., course SW.
38.30	Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on cemented gravel, and surrounded by mound of earth and stone, for $\frac{1}{2}$ sec.cor.. mkd. on brass cap $\frac{1}{2}$ S 18 in N half and $\frac{1}{2}$ 19 in S half; from which A cedar, 6 ins. in dia., bears N.50°E., 140 lks. dist. mkd. $\frac{1}{2}$ S 18 N T. A cedar, 6 ins. in dia., bears S.30°W., 42 lks. dist.. mkd. $\frac{1}{2}$ S 19 N T.
43.50	Top of ridge, 50 ft. above hollow, bears NW. and SE. Desc.
47.80	Bottom of hollow, 70 ft. below ridge, course NW. Asc.
73.130	Top of ridge, 200 ft. above hollow, bears NE. and SW. Desc.
78.50	The cor. of secs. 17, 18, 19 and 20. Land, mountainous. Soil, sandy loam mixed with sandstone boulders; 3rd rate. Hard subsoil. Timber, cedar and pinon pine. Undergrowth, sage brush. Very little grass. Mountainous or heavily timbered land, or land covered with dense undergrowth, 78.30 chs.
	December, 22, 1910: At this cor. I set off 23°26'S., on the decl. arc; and at 11 h 58'm a.m., 1.m.t., I observe the sun on the meridian, the resulting lat. is 38°02'N., which is the proper lat. nearly.

Subdivision of T. 32 S. N. 9 E.-Continued.

Chains		as above
	H.0-3'W..bet.sec3.17 and 18.	
	Over mountainous land, through heavy timber and dense undergrowth.	
	Asc.	
3.75	Top of ridge, 20 ft. above sec.cor., bears NE. and ST.	
	Desc.	
5.50	Leave heavy and enter scattering timber, bears NE. and SW.	
18.25	Bottom of hollow, 100 ft. below ridge, course W..	
	Asc.	
25.80	Top. of spur, 95 ft. above hollow, bears N. 70°W. and S. 70°E.	
	Desc.	
39.85	Bottom of hollow, 100 ft. below ridge, course N. 75°W.	
	Asc.	
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for sec.cor.. mkd.on brass cap, 1 S. 18 in. N half and 1 S. 17 in E half; from which	
	A cedar, 26 ins. in dia., bears S. 37°E., 230 lks. dist.. mkd. 1 S. 17 B. T.	
	A cedar, 30 ins. in dia., bears S. 34°30'W., 80 lks. dist.. mkd. 1 S. 18 B. T.	
56.70	Top of ridge, 300 ft. above hollow, bears E. and W.	
	Desc.	
65.00	Head of hollow, 50 ft. below ridge, course N. 15°E.	
	Asc.	
70.80	Top of spur, 60 ft. above hollow, bears NE. and SW.	
	Desc.	
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on cemented gravel, and surrounded by mound of earth and stone, for cor. of secn. 7, 8, 17 and 18 mkd.on brass cap	
	T 32 S 8 7 in NW.	
	R 9 W S 8 in NE.	
	S. 17 in SE; and	
	S. 18 in SW; quadrants; from which	

Subdivision of T. 52 S., R. 9 W.-Continued.

Chains	<p>A cedar, 8 ins. in dia., bears N.47°E., 120 lks, dist..mkd. T 52 S R 9 W S 8 B T.</p> <p>A cedar, 5 ins. in dia., bears S.52°30'E., 119 lks.dist..mkd. T 52 S R 9 W S 17 B T.</p> <p>A cedar, 6 ins. in dia., bears S.60°W., 20 lks. dist..mkd. T 52 S R 9 W S 18 B T.</p> <p>A cedar, 8 ins. in dia., bears N.19°W., 80 lks.dist..mkd. T 52 S R 9 W S 7 B T.</p> <p>Land, mountainous</p> <p>Soil, sandy loam; 2nd rate, with hard rocky subsoil.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage brush.</p> <p>Good grass for grazing.</p> <p>Mountainous, or heavily timbered land or land covered with dense undergrowth, 80.00 chs.</p>
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December 22, 1910.

December 23 1910: At 8 h 59 m a.m., l.m.t., I set off
38°08'N., on the lat.arc; 23°25'S., on the decl.arc; and
determine a meridian with the solar at the cor.of secs.
7, 8, 17 and 18.

Thence I run
N.89°53'E. on a random line bet.secs.8 and 17.

- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
79.96 Intersect the N.and S.line 10 lks. S. of the cor.of
secs.8, 9, 16 and 17.
Thence I run
S.89°49'W., on a true line bet.secs.8 and 17.

Subdivision of T. 32 S., R. 9 W.-Continued.

- Chains Over mountainous land, through heavy timber and dense undergrowth.
- Asc.
- 5.00 Top of ridge, 20 ft. above sec.cor., bears NW. and SE.
- Desc.
- 14.80 Bottom of hollow, 75 ft. below ridge, course N.
- Asc.
- 32.40 Top of ridge, 80 ft. above hollow, bears NW. and SE.
- Desc.
- 39.90 Set an iron post, 3 ft. long, 1 in. in dia., 18 ins. in the ground, on cemented gravel and surrounded by mound of earth and stone, for sec.cor. mid.on brass cap $\frac{1}{2}$ S 8 in N half and S 17 in S half; from which
- A pinon pine, 16 ins. in dia., bears N.30°E., 15 lks. dist.. mka. $\frac{1}{2}$ S 8 E T.
- A cedar, 30 in. in dia., bears S.35°E., 7 lks. dist.. mka. $\frac{1}{2}$ S 17 E T.
- 45.00 Bottom of hollow, 60 ft. below ridge, course N.40°W.
- Asc.
- 56.50 Top of ridge, 60 ft. above hollow, bears N.20°W. and S.20°E.
- Desc.
- 69.50 Bottom of hollow, 70 ft. below ridge, course N.
- Asc.
- 74.00 Top of spur, 50 ft. above hollow, bears N.20°E. and S.20°W.
- Desc.
- 79.96 The cor. of sec. 7, 8, 17, and 18.
- Land, mountainous.
- Soil, sandy and clay loam with lava rock on surface; 3rd rate. Subsoil clay and gravelly.
- Timber cedar and pin on pine.
- Undergrowth sage brush.
- Fair grass for grazing.
- Mountainous or heavily timbered land or land covered with dense undergrowth, 70.96 chs.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	
	S.89°58'W., on a random line bet.secs.7 and 18.
40.00	Set temp! $\frac{1}{4}$ sec.cor.
78.24	Intersect " bdy. of Tp.2 lks. N. of the cor. of secs.7, 12, 13 and 18, heretofore described. Thence I run N.89°57'E., on a true line bet.secs.7 and 18. Over rolling mountainous land, through scattering timber and dense undergrowth.
	Desc.
5.80	Wood road, bears N.20°E. and S.20°W.
10.00	Bottom of hollow, 30 ft. below sec.cor., course S.30°W. Asc.
38.24	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 7 in N half and S 18 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
42.00	Enter heavy timber, bears N. and S.
78.24	The cor. of secs.7, 8, 17 and 18. Land, rolling mountains. Soil, sandy loam mixed with sanstone boulders; 2nd rate. Hard gravelly subsoil. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 78.24 chs.
	December 23, 1910: At this cor. I set off 23°25'S., on the decl.arc; and at 11 h 59 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 38°03'N., which is the proper lat.nearly.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	✓	
		N.0°3'W., bet. secs. 7 and 8.
		Over mountainous, through scattering timber and dense undergrowth.
		Desc.
25.00		Bottom of hollow, 75 ft. below sec.cor., course W.
		Asc.
38.70		Top of spur, 60 ft. above hollow, bears E. and W.
		Desc.
40.00		Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for the $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 7 in W half and S 8 in E half; from which
		A pinon pine, 6 ins. in dia., bears N.79°E., 73 lks.dist.. mkd. $\frac{1}{4}$ S 8 B T.
		A pinon pine, 8 ins. in dia., nears S.69°W., 70 lks.dist.. mkd. $\frac{1}{4}$ S 7 B T.
70.00		Bottom of hollow, 30 ft. below ridge, course SW.
		Asc.
74.60		Wood road, bears EE. and SW.
80.00		Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for the cor.of secs. 5, 6, 7 and 8. mkd.on brass cap
		T 32 S S 6 in NW.
		R 9 W S 5 in NE.
		✓ S 8 in SE; and
		S 7 in SW, quadrants; from which
		A cedar, 10 ins. in dia., bears N.26°15'E., 190 lks.dist.. mkd. T 32 S R 9 W S 5 B T.
		A cedar, 12 ins. in dia., bears S.44°30'E., 110 lks. dist.. mkd. T 32 S R 9 W S 8 B T.
		A cedar, 10 ins. in dia., bears S.33°40'W., 90 lks. dist.. mkd. T 32 S R 9 W S 7 B T.
		A cedar, 6 ins. in dia., bears N.48°30'W., 215 lks. dist.. mkd. T 32 S R 9 W S 6 B T.
		Land, mount inous.

Subdivision of T.32 S., R.9 W.-Continued.

Chains	<p>Soil, sandy loam mixed with scattering sandstone boulders; 2nd rate with a hard rocky subsoil.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage brush.</p> <p>Good grass for grazing.</p> <p>Mountainous land, or land covered with dense undergrowth,</p> <p>80.00 chs.</p>
	December 23, 1910.
	<p>December 24, 1910: At 8 h 59 m a.m., l.m.t., I set off $38^{\circ}03'N.$, on the lat.arc; $23^{\circ}24'S.$, on the decl.arc; and determine a meridian with the solar at the cor.of secs. 5, 6, 7 and 8.</p> <p>Thence I run $N.89^{\circ}49'E.$, on a random line bet.secs.5 and 8.</p>
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.94	Intersect the N.and S.line, 2 lks.S. of the cor.of secs:4, 5, 8 and 9.
	<p>Thence I run $S.89^{\circ}48'W.$, on a true line bet.secs.5 and 8.</p> <p>Over mountainous (rolling) land, through dense undergrowth.</p> <p>Asc.</p>
2.50	Top of ridge, 60 ft.above hollow, bears N.and S.
	<p>Desc.</p>
39.97	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins. the ground, for $\frac{1}{4}$ sec.cor.. mid.on brass cap $\frac{1}{4}$ S 5 in N half and S 8 in S half; dig pits, 18x18x12 ins.E.and W. of post 3 ft.dist.and raise a mound of earth, $5\frac{1}{2}$ ft. base, $\frac{1}{2}$ ft.high, N.of cor.
68.50	Bottom of hollow, 100 ft.below ridge, course SW.
	<p>Asc.</p>

Subdivision of T.32 S. R.9 W.-Continued.

- Chains Description
- 73.30 Wood road, bears NE. and SW. Enter scattering timber,
The cor. of secs. 5, 6, 7 and 8.
Land, rolling mountains.
Soil, sandy loam; 2nd rate with hard clay subsoil.
Timber, cedar, and pinon pine.
Undergrowth, sage brush.
- 79.94 Good grass for grazing.
- Mountainous land, or land covered with dense undergrowth,
79.94.
- December 24, 1910: At this cor. I set off 23°25'S., on the
decl. arc; and at 11 h 59 m a.m., l.m.t., I observe the sun
on the meridian, the resulting lat. is. 38°03'N., which
is the proper lat. nearly.
- 40.00 Set temp. $\frac{1}{2}$ sec.cor.
- 78.10 Intersect W.bdy. of Tn. at the cor. of secs. 1, 6, 7 and 12,
heretofore described. Thence I run
M.89° 57'E., on a true line bet. secs. 6 and 7. 00.00
- Over mountainous land, through scattering timber and
dense undergrowth.
- Asc. .
- .50 Top of spur, 10 ft. above sec.cor., bears N. and S.
- De. sc. .
- 18.90 Bottom of hollow, 100 ft. below spur, coarse SW.
- Asc. .
- 23.50 Top of steep ascent, begin gradual ascent, bears NE. and SW.
- 38.10 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground for $\frac{1}{2}$ sec.cor. mkd. on brass cap $\frac{1}{4}$ S 6 in N half
and S 7 in S half; from whihh

Subdivision of T.32 S., R.9 W.-Continued.

Chains	A cedar, 6 ins. in dia., bears N.69°E., 94 lks. dist..mkd. $\frac{1}{4}$ S 6 B T.
	A cedar, 6 ins. in dia., bears S.77°30' E., 30 lks.dist..mkd. $\frac{1}{4}$ S 7 B T.
65.00	Top of ridge, 100 ft. above hollow, bears N.30°E. and S.30°W.
	Desc.
78.10	The cor. of secs. 5, 6, 7 and 8. Land, mountainous: Soil, sandy loam; 2nd rate with a hard clay subsoil. Timber cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 78.10 chs.

For reasons already explained, I run
R.0°3'W., bet. secs. 5 and 6.

Over rolling mountainous land, through scattering timber
and dense sage brush.

Asc.

12.50 Top of ridge, 60 ft. above hollow, bears NE. and SW.

Desc.

26.80 Road from Milford to Paragonach, bears E. and W.

40.00 Set an iron post, 3 ft. 10 in., 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 6 in W half
and S 5 in E half; from which

A cedar, 6 ins. in dia., bears S.66°E., 260 lks.
dist..mkd. $\frac{1}{4}$ S 5 B T.

A cedar, 5 ins. in dia., bears N.83°30'W., 148
lks.dist..mkd. $\frac{1}{4}$ S 6 B T.

51.10 Wood road, bears E. and W. in bottom of hollow, 75 ft. below
ridge, course W.

Subdivision of T. 32 S., R. 9 W. -Continued.

Chains	60.00	Top of ridge, 90 ft. above hollow, bears NE. and SW.
		Asc.
72.40	Wood road, bears E. and W.	
74.20	Bottom of hollow, 70 ft. below ridge, course SW.	
		Asc.
86.11	Intersect N. bdy. of Tp. 2.15 chs. W. of cor. of secs. 5, 6, 31 and 32, heretofore described.	

Set an iron post, 3 ft. long, 2 ins. in dia., 20 ins. in the ground, on cemented gravel and surrounded by mound of earth and stone for closing cor. of secs. 5 and 6..

mkd. on brass cap

C C T 31 S R 9 W S 31 S 32 in N. half,

R 9 W S 5 in SE; and

T 32 S S 6 in SW, quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

Land, mountainous.

Soil, sandy loam; 2nd rate with hard clay subsoil.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth,

86.11 chs.

December 24, 1910.

Danhy Stewart

Instrumentman C. L. O.

GENERAL DESCRIPTION.

The greater part of this township lies to the West of

Subdivision of T. 32 S., R. 9 W.-Continued.

the Divide Ridge between Cedar and Parowan valleys, which divide runs in a northerly and southerly direction. The country slopes gradually southwesterly and southeasterly from this Divide. The country is most abrupt for about a mile on each side of the Divide.

Most of the township is covered with a dense growth of sage brush and the larger part of it has a heavy growth of pinon pine and cedar timber which at the present time is not fit for commercial purposes. The township is partly covered with a growth of grass that makes fair grazing.

There is no water in the township except that coming from melting snow during the winter and spring season, therefore the land is probably most profitable for the winter grazing of sheep and cattle.

The timber is valuable only for fuel and fence posts.

The sedimentary rock found in this township is sandstone which outcrops in almost all parts of the township, there is however, some igneous or volcanic rock scattered in various parts of the township.

There is no mineral in the township.

No settlers were found living or improving any of the land.

John R Stewart
Lumbry Stewart

Instrumentmen G.L.O.

December 24, 1910.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**LIST OF NAMES.**

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

_____, *Chainman.*
For list of names and final oaths of assistants see _____, *Chainman.*

book "X" T. 3⁴ S., R. 10 W. _____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____, which are represented _____

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, *Chainman.*

_____, *Chainman.*

_____, *Moundman.*

_____, *Moundman.*

_____, *Axman.*

_____, *Axman.*

_____, *Flagman.*

Subscribed and sworn to before me this _____
day of _____, 19 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____, bearing date of _____ day of _____, 19_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final oath of transitmen see book "Z¹²" T. 31 S., R. 9 W.

..... of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 19_____ }

oooooo
o SEAL o
oooooo

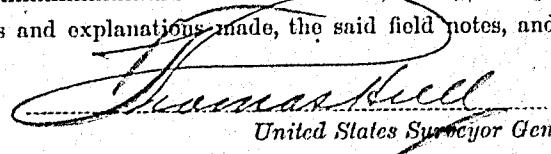
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 19____

The foregoing field notes of the survey of the subdivisional lines of Township No. 32 South, Range No. 9 West of the Salt Lake Base and Meridian, Utah,

executed by John P. Stewart and Quinby Stewart under their special instructions _____, dated August 6, 1910, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.


James A. Bell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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FILED

JULY 25 1911

BOOK A-385

7/26/15

FIELD NOTES

OF THE SURVEY OF THE

RESURVEY... NORTH... AND... WEST... BOUNDARIES

of

Township No. 33 South, Range No. 9 West

Of the Salt Lake Base and Meridian,

State of Utah.

AS SURVEYED BY

United States Transitmen.

John R. Stewart and Quinby Stewart, ~~MAINTENANCE OF MACHINERY, NEW YORK~~assignment Group
Under ~~Assignment No. 1~~, dated August 6, 1910., ~~stock~~Survey commenced December 5, 1910., ~~stock~~Survey completed December 6, 1910., ~~stock~~

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NAMES AND DUTIES OF ASSISTANTS.

Maeser Dalley..... Chainman

Harvey W. Elliott..... Chainman

Alton Ivie..... Moundman

Milo Nelson..... Axman

For preliminary affidavits see book "Q" T. 31 S., R. 8 W.

BOOK A-385

INDEX DIAGRAM.

Township 23 South, Range 9 West

8	10	12	2		
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18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainma

....., Chainma

Subscribed and sworn to before me this }
day of , 190 }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundma

....., Moundma

Subscribed and sworn to before me this }
day of , 190 }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axma

....., Axma

Subscribed and sworn to before me this }
day of , 190 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagma

Subscribed and sworn to before me this }
day of , 190 }



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Retracemnet North bdy.T.33 S.,R.9 W.

Survey commenced Dec.4,1910, and executed with a Young and sons light mountains transit, No.7382, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by observations on Polaris, I proceed as follows:

At the cor. of secs. 2, 3, 34, and 35, on N.bdy. of Tp., latitude $37^{\circ}59'04''$ N., longitude $112^{\circ}48'35''$ W., I set off $37^{\circ}59'$ N., on the lat.arc; $22^{\circ}12'$ S., on the decl.arc; and at 2 h 50 m p.m. l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

December 4, 1910.

December 5, 1910: At 2 h 31.6 m a.m., l.m.t., I observe Polaris at western elongation, in accordance with the Manual, and mark a point in the line thus determined, by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor. At 8 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}29.4'$ to the east, and mark the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.39 ins. east of the meridian established by the solar.

At 8 h 50 m a.m., l.m.t., I set off $37^{\circ}59'11''$, on the lat.arc;

DOOR R 363
Retracement North bdy. T.33 S., R.9 W.--Continued.

Chains	<p>22°18'S., on the decl. arc; and mark the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.33 ins. east of the meridian established by Polaris observation.</p> <p>The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about 0°21" west and 0°17" east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.</p> <p>The magnetic bearing of the meridian, at 9 h 30 m a.m., is N.16°03'W., the angle thus determined, gives the mag. decl. 16°03'E.</p> <hr/> <p>The cor. of secs. 2, 3, 34, and 35, is an iron stone, 10x12x6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The cor. stone is poorly marked therefore I replace it by an iron post as follows:</p> <p>Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 2, 3, 34, and 35, mkd. on brass cap</p> <p>T 32 S S 34 in NW.</p> <p>R 9 W S 35 in NE.</p> <p>R 9 W S 2 in SE.; and</p> <p>T 33 S S 3 in SW. quadrants; the old bearing trees are in good shape and properly described in the old notes.</p> <p>Note: Before commencing the subdivision of this fractional township I proceed to retrace the lines adjoining the new work.</p> <p>Thence I run</p> <p>west, on a retracement line bet. secs. 3 and 34.</p> <p>Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.</p> <p>Asc.</p> <p>3.70 Top of rocky spur, 40 ft. above cor., bears NW and SE.</p>
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Retracement n.bdy.t.33 S., R.9 W.-Continued.

Chains	
	Desc.
4.90	Bottom of hollow, 35 ft. below spur, course SE.
	Asc.
8.20	Top of spur, 80 ft. above hollow, bears NW and SE.
	Desc.
16.80	Wood road, bears NW and SE.
25.00	Bottom of hollow, 60 ft. below spur, course SE.
30.00	Top of rocky spur, 70 ft. above hollow, bears N. and S.
	Desc.
35.00	Bottom of hollow, 40 ft. below spur, course S. 60° E.
	Asc.
39.25	Fall 49 lks. N. of the $\frac{1}{4}$ sec. cor. bet. secs. 3 and 34, which is trachyte stone, 9x12x5 ins. above ground, loosely set, and mkd. and witnessed as described by the surveyor general. I destroy the old cor. and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 1 in. in dia., 16 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 34 in N half and S 3 in S half; from which
	A cedar, 6 ins. dia. bears N. 80° W., 85 lks. dist.. mkd. $\frac{1}{4}$ S 34 B T.
	A cedar, 8 ins. dia.; bears S. 65° W., 218 lks. dist.. mkd. $\frac{1}{4}$ S 3 B T.
43.05	Foot of granite ledge, 60 ft. high, bears NW and SE.
55.80	Top of ridge, 300 ft. above hollow, bears N. and S.
	Desc.
72.00	Bottom of hollow, 175 ft. below ridge, course NE.
	Asc.
77.84	Fall 103 lks. South of the cor. of secs. 3, 4, 33, and 34, which is a trachyte stone, 20x12x6 ins., above ground, fairly well set, and mkd. and witnessed as described by the surveyor general, except that the bearing trees are in bad shape, some of the marks are overgrown and some trees are dead; therefore I destroy the old cor. and re-establish it in the

Retracement North bdy. T.33. S., R.9 W.-Continued.

Chains

same place as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 20 ins. in the ground, on rock, and surrounded with mound of earth and stone, for cor. of secs. 3, 4, 33, and 34, mkd. on brass cap.

T 32 S S 33 in NW.

R 9 W S 34 in NE.

R 9 W S 3 in SE.; and

" 33 S S 4 in SW. quadrants; from which

A cedar, 8 ins. dia., bears N.85°E., 18 lks.

dist.. mkd. T 32 S R 9 W S 34 B T.

A cedar, 5 ins. dia., bears S.22°E., 15 lks.

dist.. mkd; T 33 S R 9 W S 3 B T.

A cedar, 6 ins. dia., bears S.85°W., 26 ins. lks., max

dist.. mkd. T 33 S R 9 W S 4 B T.

A cedar, 6 ins. dia., bears N.65°W., 21 lks.

dist.. mkd. T 32 S R 9 W S 33 B T.

The course of the east half of this mile is therefore ✓
S.89°17'W., 39.25 chs. and the west half is N.87°45'W., 38.62
chs.

Land, rough and steep ridges and hollows, covered with volcanic rocks.

Soil, sandy loam about 1 ft. to 2 ft. deep, mixed with small volcanic rock and gravel; 2nd rate. Subsoil, gravel and rock.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 77.87 chs.

West, on retrace ment line along north bdy of Tp., from the above described cor. of secs. 3, 4, 33, and 34.

I find no part of the line within limits in alignment or measurement. And from the cor. of Tps. 32 and 33 S., Rs. 9 and 10 W. I run south on retrace ment line along west bdy. of Tp., therefore I decide to re-establish the west and north

Retracement Bdys. T.33 S., R.9 W.-Continued.

Chains

boundaries of the Tp., upon which no subdivision is dependent ; in the regular manner for the survey of bdys. as follows:.

December 5, 1910.

December 6, 1910: At 8 h 51 m a.m., l.m.t., I set off $37^{\circ}57'$ N., on the lat.arc; $22^{\circ}25'$ S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 7, 12, 13, and 18, which is a gray sandstone, $12 \times 12 \times 6$ ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. The cor.stone is partly decayed & therefore destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor.of secs. 7, 12, 13, and 18, mkd. an brass cap

T 33 S in N half.

R 10 W S 12 in NW.

R 9 W S 7 in NE.

S 18 in SE.; and

S 13 in SW.quadrants; from which

A pinon pine, 10 ins.dia., bears N. 84° E., 162 lks.

dist..mkd.T 33 S R 9 W S 7 B.T.

A cedar, 18 ins.dia., bears S. 75° E., 129 lks.

dist..mkd.T 33 S R 9 W S 18 B.T.

A pinon pine, 9 ins.dia., bears S. 22° W., 233 lks.

dist..mkd.T 33 S R 10 W S 13 B.T.

A cedar, 9 ins.dia., bears N. 81° W., 267 lks.

dist..mkd.T 33 S R 10 W S 12 B.T.

Thence I run

North, bet.secs. 7 and 12..

Over mountainous land; through heavy cedar and pinon pine timber, and dense sage brush.

West bdy.T. 33 S., R. 9 W.-Continued.

Chains	
	Asc.
8.30	Top of ridge, 50 ft. above cor., bears N.40°E. and S.40°W.
	Desc.
21.60	Bottom of hollow, 60 ft. below ridge, course N.50°W.
	Asc.
26.90	Top of ridge, 60 ft. above hollow, bears NW and SE.
	Desc.
35.85	Bottom of hollow, 50 ft. below ridge, course N.50°W.
	Asc.
38.00	Top of spur, 30 ft. above hollow, bears E. and W.
	Fall 36 lks. East of the old $\frac{1}{4}$ sec.cor. bet. secs. 7 and 12, which is a sandstone, 15x15x6 ins., lying on the ground, and mkd. and witnessed as described by the surveyor general. I destroy the old cor.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 12 in W half and S 7 in E half; from which
	A pinon pine, 8 ins. dia., bears N.43°E., 22 lks. dist.. mkd. $\frac{1}{4}$ S 7 B T.
	A pinon pine, 10 ins. dia., bears S.77° W., 79 lks. dist.. mkd. $\frac{1}{4}$ S 12 B T.
43.60	Bottom of hollow, 60 ft. below ridge, course W.
	Asc.
65.20	Top of ridge, 75 ft. above hollow, bears N.40°W. and S.40° E.
	Desc.
79.70	Fall 109 lks. East of the old cor. of secs. 1, 6, 7 and 12, which is a sandstone, 11x12x4 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. I destroy the old cor.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, mkd. on brass cap T 33 S in N half;
	R 10 W S 1 in NW.
	R 9 W S 6 in NE.

West bdy.T.33 S.,R.9 W.-Continued.

Chains	S 7 in SE.;and S 12 in SW.quadrants;from which A cedar,12 ins.dia.,bears N.45°E.,39 lks. dist. mkd.T 33 S R 9 W S 6 B T. A cedar,12 ins.dia.,bears S.29°E.,68 lks. dist..mkd.T 33 S R 9 W S 7 B T. A cedar,12 ins.dia.,bears S.41°W.,90 lks. dist..mkd.T 33 S R 10 W S 12 B T. A cedar,9 ins.dia.,bears N.88°W.,28 lks. dist..mkd.T 33 S R 10 W S 1 B T.
	Land rolling mountains general slope and drainage north westerly.
	Soil,rich sandy loam about 2 ft.deep, on hard clay subsoil.
	Timber.cedar and pinon pine .
	Undergrowth,sage brush.
	Good grass in patches.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.00 chs.
	North,betsecs.1 and 6.
	Over mountainous land;through heavy cedar and pinon pine timber and dense sage brush.
	Desc.
6.30	Bottom of hollow,100 ft.below cor.,course N.30°W.
	Asc.
12.00	Top of ridge,150 ft.above hollow,bears E.and W.
	Desc.
25.00	Bottom of hollow,75 ft.below ridge,course N.40°W.
	Asc.
31.00	Top of ridge,100 ft.above hollow,bears NE and SW.
	Desc.gradually.
40.00	Find no trace of the old cor. Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the

West bdy.T.33 S.,R.9 W.-Continued.

Chains ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 1 in W half; and S 2 in E half; dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

80.00 Set temp.cor. of Tps.32 and 33. S., R.9 and 10 W.

Note: Later this cor. was set at 75.50 chs., for description of which see notes of north bdy. of Tp., Land, rolling mountainous; gradual slopes northwest.

Soil, rich sandy loam about 2 ft. deep, on clay subsoil.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

A very little grass.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 75.50 chs.

From the cor.of secs.3,4,33, and 34, on N.bdy.of Tp., heretofore described I run

West, on a random line along N.bdy.of Tp., setting temp., sec. and sec.cor., at intervals of 40.00 chs. and at 238.51 chs. Intersect W.bdy.of T.33 S., R.9 W., at 75.50 chs. North of the cor.of secs.1,6,7, and 12.

Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the ground, for cor.of Tps.32 and 33 S., R.9 and 10 W., mkd. on brass cap

T 32 S in N half

T 33 S in S half;

R 10 W S 36 in NW.

R 9 W S 31 in NE.

R 9 W S 6 in SE.; and

R 10 W S 1 in SW.quadrants; from which

A cedar, 6 ins.dia., bears N. 71° E., 255 lks. dist..mkd.T 32 S R 9 W S 31 S T.

A pinon pine; 6 ins.dia., bears S. 21° E., 368 lks. dist..mkd.T 33 S R 9 W S 6 S T.

North bdy.T.33 S., R.9 W.-Continued.

Chains	A cedar, 5 ins. dia., bears S.31°W., 415 lks. dist..mkd.T 33 S R 10 W S 1 B T. A cedar, 4 ins. dia., bears N.73°W., 305 lks. dist..mkd.T 32 S R 10 W S 36 B T. The old Tp.cor., bears West 374 lks. and north 30 lks. from this cor.: I destroy all traces of the old cor. December 6, 1910: At this cor. I set off 22°27'S., on the decl.arc; and at 11 h 51 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 37°59'N., which is the proper lat. nearly. Thence I run East, on a true line bet.secs.6 and 31. Over rolling hills and hollows: through scattering cedar and pinon pine timber and dense sage brush. Asc.gradually.
12.00	Wash, 30 lks. wide, 3 ft. deep, in bottom of hollow, 10 ft below cor.: course N.20°W. Asc.
17.70	Road, (wood), bears N.15°W. and S.15°E.
36.80	Wood road, bears NE and SW.
38.51	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 31 in N half and S 6 in S half; from which A cedar, 8 ins. dia., bears N.24°W., 82 lks. dist..mkd. $\frac{1}{4}$ S 31 B T. A cedar, 7 ins. dia., bears S.27°W., 55 lks. dist..mkd. $\frac{1}{4}$ S 6 B T. The old cor., which is an iron stone, 15x8x8 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general bears W.264 lks. and south, 23 lks. I destroy all traces of the old cor.
51.00	Enter heavy timber, bears N. and S. Begin more abrupt ascent, bears N. and S.
78.51	Set an iron post, 3 ft long, 3 ins. in dia., 19 ins. in the ground, on solid rock, and surrounded by mound of earth

North bdy.T.33 S., R.9 W.-Continued.

	Chains and stone, for cor. of secs. 5, 6, 31, and 32, mkd. on brass cap T 32 S S 31 in NW. R 9 W S 32 in NE. R 9 W S 5 in SE.; and T 33 S S 6 in SW. quadrants; from which A pinon pine, 16 ins. dia., bears N. 29° 30' E., 88 lks. dist.. mkd. T 32 S R 9 W S 32 B T. A cedar, 12 ins. dia. bears S. 17° W., 145 lks. dist.. mkd. T 33 S R 9 W S 5 B T. A cedar, 6 ins. dia., bears S. 22° W., 43 lks. dist.. mkd. T 33 S R 9 W S 6 B T. A pinon pine, 6 ins. dia., bears N. 31° 20' W., 98 lks. dist.. mkd. T 32 S R 9 W S 31 B T. No trace of the old cor. could be found. Land, gradually sloping to the west. Soil, sandy loam about 18 ins. deep, mixed with some gravel Subsoil, hard gravel and clay. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 88.51 chs.
	East, on a true line bet. secs. 5 and 32.
	Over rolling hills and hollows; through heavy cedar and pinon pine timber, and dense sage brush.
	Asc.
12.50	Wash, 35 lks. wide, 2 ft. deep, course SW.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{2}$ S 32 in N half and S 5 in S half; from which A cedar, 6 ins. dia., bears N. 79° E., 49 lks. dist.. mkd. $\frac{1}{2}$ S 32 B T. A cedar, 7 ins. dia., bears S. 49° W., 12 lks. dist.. mkd. $\frac{1}{2}$ S 5 B T.

North bdy.T.38 S. R.9 W.-Continued.

Chains

The old 4 sec.cor.,which is a trachyte stone,15x12x6 ins., lying on ground,mkd.and witnessed as described by the surveyor general bears west 160 lks.and South 211 lks. dist.;I destroy all traces of the old cor.

47.00 Top of flat ridge,100 ft.above sec.cor.,bears NW and SE.

Desc.

50.80 Bottom of hollow,35 ft.below ridge,course NW.

Asc.

80.00 Set an iron post,5 ft.long,3 ins.in dia.,18 ins.in the ground,on solid rock, and surrounded by mound of earth and stone,for cor.of secs.4,5,32, and 33,mkd.on brass cap

T 32 S S 32 in NW.

R 9 W S 33 in NE.

R 9 W S 4 in SE.;and

T 33 S S 5 in SW.quadrants;from which

A pinon pine,4 ins.dia.,bears N.64°E.,92 lks.
dist..mkd.T 32 S R 9 W S 32 B T.

A cedar,4 ins.dia.,bears S.79°E.,24 lks.
dist..mkd.T 33 S R 9 W S 4 B T.

A cedar,6 ins.dia.,bears S.37°30'W.,74 lks.
dist..mkd.T 33 S R 9 W S 5 B T.

A cedar,7 ins.dia.,bears N.88°W.,159 lks.
dist..mkd.T 32 S R 9 W S 32 B T.

The old cor.of secs.4,5,32, and 33,which is a trachyte ston 5x12x8 ins.above ground,well set, and mkd.and witnessed as described by the surveyor general,bears west 88 lks. and South 213 lks.dist.I destroy all traces of the old cor.

Land,rolling mountainous land.

Soil,sandy loam;mixed with gravel,about 1 ft.deep,Subsoil hard and rocky gravel and clay.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,or land covered with

North bdy. T. 33 S., R. 9 W. -Continued.

Chains
dense undergrowth, 80.00 chs.

East, on a true line bet. secs. 4 and 33.
Over mountainous land; through heavy cedar and pinon pine timber and dense sage brush.

Asc.
31.60 Top of divide ridge between Parowan and Cedar valleys, 500 ft. above sec. cor., bears NE and S. 10° W.
Desc.
40.00 Set an iron post 3 ft. long, 1 in. in dia., 12 ins. in the ground, on rock, and surrounded by mound of earth and stone for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 33 in N half and S 4 in S half; from which
A pinon pine, 12 ins. dia., bears N. 75° E., 46 lks.
dist.. mkd. $\frac{1}{4}$ S 33 B T.
A pinon pine, 10 ins. dia., bears S. 35° W., 33 lks.
dist.. mkd. $\frac{1}{4}$ S 4 B T.
The old $\frac{1}{4}$ sec. cor., which is a granite stone, 20x14x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears West 200 lks. and South, 100 lks.; I destroy all traces of the old cor.
80.00 The cor. of secs. 3, 4, 33, and 34, heretofore described.
400 ft. below top of ridge.
Land, rocky and steep mountain slopes.
Soil, sandy loam about 1 ft. deep. Subsoil, rocky.
Timber, cedar and pinon pine.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

Boundaries of T.33 S., R.9 W.-Continued.

Latitudes, departures, and Closing errors.

Line designated	course	dist.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
W.bdy.T.33 S.,R.9 W.North		.155.50	.155.50			
W.bdy.TT33 S.,R.9 W.East		238.51			238.51	
E.bdy.sec.4 Sub. T.33 S.,R.9 W.	S.2°40'W.	41.72		.41.67		1.94
E.bdy.sec.4 Sub. T.33 S.,R.9 W.	S.2°10'E.	39.53		39.50	1.49	
S.bdy.sec.4 Sub. T.33 S.,R.9 W.	S89°51'W.	79.50		.21		79.50
E.bdy.sec.8 Sub. T.33 S.,R.9 W.	S.0°3'E.	79.71		79.71	.07	
S.bdy.sec.8 Sub. T.33 S.,R.9 W.	N.89°44'W.	40.10	.19			40.10
S.bdy.sec.8 Sub. T.33 S.,R.9 W.	N.89°48'W.	40.14	.14			40.14
S.bdy.sec.7 Sub. T.33 S.,R.9 W.	N.88°14'W.	40.98	1.26			40.96
S.bdy.sec.7 Sub. T.33 S.,R.9 W.	N.84°W.	38.03	5.98			37.82
Convergency					.08	
Totals			161.07	161.09	240.15	240.46
Error in lat.					161.07	240.15
Error in Dep.						.31

For General description see notes of Sub .of Tp.

Dunby Stewart

December 6, 1910.

Instrumentman G.I.O.

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Page

INSTRUMENTMAN
FINAL OATHS OF ~~THE PRACTICING SURVEYOR~~ AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Quinby Stewart,
 Instrumentman G.L.O., ~~DEPUTY SURVEYOR~~, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the ~~Survey~~ Resurvey
S. and W. bds. T. 31 S., R. 8 W.; Resurvey N. and W. bds. T. 33 S., R. 9 W.
S.L.B. & E. U., Utah,
 showing the respective capacities in which they acted:

Maeser Dalley, Chairman.
Harvey W. Elliott, Chairman.
Alton Ivie, Moundman.
Milo Nelson, Axman.
, Axman.
, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Quinby Stewart,
 Instrumentman G.L.O., ~~DEPUTY SURVEYOR~~, in surveying all
 those parts or portions of the Resurvey S. and W. bds. T. 31 S., R. 8 W. and Resurvey
N. and W. bds. of T. 33 S., R. 9 W.

of the Salt
Lake Baso and meridian, State Utah, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for Utah.

Maeser Dalley, Chairman.
Harvey W. Elliott, Chairman.
Alton Ivie, Moundman.
Milo Nelson, Axman.
, Axman.
, Flagman.

Subscribed and sworn to before me this 6th
 day of December, 1910, 1910

ccccc
ccccc
ccccc

Quinby Stewart

Instrumentman G.L.O.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, bearing date of the United States Surveyor General for _____, day of _____, 190_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final oath of Transitman see book "11" T.31 S. R.9 W.2. Quinby Stewart. For final oath of John B. Stewart Transitman see book 75 T.32 S. R.11 W. _____ of the _____.

meridian, in the _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914.

The foregoing field notes of the survey of the North and west boundaries of Township No. 35 south, Range No. 9 west of the Salt Lake Base and Meridian, Utah,

executed by Quinby Stewart
under his contract No. _____, dated August 6, 1910, 190_____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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Ex.VIF.

Filed Apr. 25, 1911.

WSH.

4-670

W.

BOOK A-385
FIELD NOTES

Retracement and
OF THE SURVEY OF THE

S U B D I V I S I O N

OF

TOWNSHIP NO. 33 SOUTH, RANGE NO. 9 WEST

of the SALT LAKE PARCEL AND Meridian,

In the State of UTAH

EXECUTED BY

JOHN R. STEWART AND GENEVIEVE STEWART

Trisittee

In the capacity of U.S. Surveyor, under instructions dated Aug. 6, 1910,
issued by the United States Surveyor General to govern surveys included in
Group No. 1, which were approved by the Commissioner of the General Land
Office, Aug. 25, 1910, pursuant to authority contained in the Act of
Congress dated , 1910.

Survey commenced December 7, 1910.

Survey completed December 9, 1910.

NAMES AND DUTIES OF ASSISTANTS.

Maeser Dalley, Chainman.

Harvey W. Elliott, Chainman.

Alton Ivie, Moundman.

Milo Nelson, Axman.

For preliminary affidavits see book "L" T.31 S., R.7 W.

BOOK A-385

INDEX DIAGRAM.

Township 33 South, Range 9 West

6	15	5	10	4	1	3	.	2	.	1
14		11		3						
	13									
7	11	8	5	9		10		11		12
8		6								
18		17		16		15		14		13
19		20		21		22		23		24
30		29		28		27		26		25
31		32		33		34		35		36

BOOK A-385

INDEX DIAGRAM.

Township 33 South, Range 9 West.

6	15	5	10	4	1	3		2		1
14		11		3						
	13									
7	11	s	5	0		10		11		12
8		6								
18		17		16		15		14		13
19		20		21		22		23		24
30		20		28		27		26		25
31		32		33		34		35		36

Meanders Page.

PRELIMINARY OATHS OF ASSISTANTS.

WE, and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chainma

, Chainma

Subscribed and sworn to before me this }
day of , 190 }



WE, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundma

, Moundma

Subscribed and sworn to before me this }
day of , 190 }



WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axm

, Axm

Subscribed and sworn to before me this }
day of , 190 }



I, do solemnly swear that I will well and tr
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in
survey of

, Flagm

Subscribed and sworn to before me this }
day of , 190 }



Retracement Sub.T.33 S.,R.9 W.

- Cheins. Survey commenced December 7, 1910, and executed with a Young and Sons light mountain transit, No. 7382, with solar attachment. The horizontal limb is provided with two verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the latitude and declination arcs.
- The instrument was examined, tested on the meridian, at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on August 6, 1910.
- Note for test of instrument see notes of Retracement North bdy. T.33 S., R.9 W.
- At 8 h 51 m a.m., l.m.t., I set off $37^{\circ}59'N.$, on the lat. arc; $22^{\circ}32'S.$, on the decl. arc; and determine a meridian with the solar at the cor. of secs. 3, 4, 33, and 34, on N.bdy. of Tp., heretofore described.
- Note: Before completing the subdivision of this township I proceed to retrace the lines adjoining the new work. Thence I run $S.0^{\circ}15'W.$, on a retracement line bet. secs. 3 and 4. Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.
- Desc.
- 6.10 Bottom of hollow, 70 ft. below sec.cor., course NE.
Asc.
- 21.60 Top of ridge, 1250 ft. above hollow, bears NE and SW.
Desc. abruptly.
- 35.90 Head of hollow, 150 ft. below ridge, course N. $80^{\circ}E.$
Asc.
- 39.85 Top of ridge, 100 ft. above hollow, bears E. and W.
Desc.
- 41.68 Fall 176 lks. E. of the $\frac{1}{2}$ sec.cor. bet. secs. 3 and 4, which is a decayed cedar post, mkd. and witnessed as described by the surveyor general. I destroy the old cor. and re-establish it in the same place as follows:
- Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the

Retracement Sub.T.33 S., R.9 W.-Continued.

chains.

ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 4 in W half
and S 3 in E half;from which

A cedar, 10 ins.dia., bears N.49°E., 70 lks.

dist..mkd. $\frac{1}{4}$ S 3 B T.

A pinon pine, 8 ins.dia., bears N.74°W., 45 lks.
dist..mkd. $\frac{1}{4}$ S 4 B T.

57.40 Bottom of hollow, 500 ft.below ridge, course S.70°E.

Asc. by trail, through sage brush, across stream bed, over talus slope.

61.75 Top of ridge, 100 ft.above hollow, bears E.and W.

Desc. through sage brush, across stream bed, over talus slope.

66.65 Bottom of hollow, 90 ft.below ridge, course E.

Asc.abruptly.

73.90 Top of ridge, 300 ft.above hollow, bears N.80°E.and S.80°
W.

Desc. through sage brush, across stream bed, over talus slope.

81.17 Fall 9 lks.East of the cor.of secs.3,4,9, and 10,which is
a red sandstone, 12x14x10 ins., above ground, firmly set, and
mkd.and witnessed as described by the surveyor general,
I destroy the old cor.and re-establish it in the same
place as follows:

Set an iron post, 3 ft.long, 3 ins.in dia., 24 ins.in the
ground, for cor.of secs.3,4,9, and 10 mkd.on brass cap

T 33 S S 4 in NW.

R 9 W S 3 in NE.

S 10 in SE.; and

S 9 in SW.quadrants;from which

A cedar, 6 ins.dia. bears N.54°E., 14 lks.

dist..mkd.T 33 S R 9 W S 3 B T.

A cedar, 6 ins.dia., bears S.27°30'E., 34 lks.

dist..mkd.T 33 S R 9 W S 10 B T.

A cedar, 5 ins.dia., bears S.76°30'W., 34 lks.

dist..mkd.T 33 S R 9 W S 9 B T.

A cedar, 6 ins.dia., bears N.85°W., 37 lks.

dist..mkd.T 33 S R 9 W S 4 B T.

Retracement Sub .T.33 S.,R.9 W.-Continued.

Chains

The course of the north half of this mile is therefore S.28°40'W., 41.72 chs. and the south half is S.2°10'E., 39.53 chs.

Land, rough and steep ridges and hollows, covered with rock and low ledges.

Soil, sandy loam; about 1 ft. deep, mixed with shale and sandstone.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 81.25 chs.

S.89°51'W., on a retracement line bet.secs.4 and 9.

Over mountainous land; through heavy cedar and pinon pine timber and scattering sage brush.

Asc.

5.20 Top of spur, 60 ft. above bor. bears NW and SE.

Desc.

18.40 Bottom of hollow, 40 ft. below spur, course SE.

Asc.

39.00 Top of spur, 350 ft. above hollow, bears N.20°W. and S.20°E.

Desc.

39.80 Intersect the $\frac{1}{4}$ sec.cor.bet.secs.4 and 9, which is a gray sandstone, 9x10x5 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

The cor.stone is partly decayed ; i therefore destroy the old cor.and re-establish it in the same place as follows.

Set an iron post, 3 ft.long, 1 in.in dia., 20 ins.in the ground, on solid rock, and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec.cor.mkd.on brass cap $\frac{1}{4}$ S 4 in N half and S 9 in S half; from which

A cedar, 10 ins.dia., bears N.5°W., 19 lks.

dist..mkd. $\frac{1}{4}$ S 4 B T.

A cedar, 10 ins.dia., bears S.2°E., 37 lks.

Retracement Sub.T.33 S., R.9 W.-Continued.

Chains	dist.; mkl. 1 S 9 B.T.
56.00	Bottom of hollow, 200 ft. below ridge, course SE. Asc. abruptly.
78.90	Top of divide ridge, between Cedar and Parowan valleys, 600 ft. above hollow, bears N.30°E. and S.30°W.
	desc.
79.50	Intersect the cor. of secs. 4, 5, 8, and 9, which is an iron stone, 9x11x5 ins., above ground, firmly set, and mkl. and witnessed as described by the surveyor general. I destroy the old cor. and re-establish it in the same place as follows: Set an iron post, 3 ft. long, 2 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 4, 5, 8, and 9, mkl. on brass cap T 33 S S 5 in NW. R 9 W S 4 in NE. S 9 in SE.; and S 8 in SW. quadrants; from which A pinon pine, 8 ins. dia., bears N.9°E., 240 lks. dist..mkl.T 33 S R 9 W S 4 B.T. A pinon pine, 6 ins. dia., bears S.21°E., 106 lks. dist..mkl.T 33 S R 9 W S 9 B.T. A pinon pine, 8 ins. dia., bears S.8°W., 147 lks. dist..mkl.T 33 S R 9 W S 8 B.T. A pinon pine, 6 ins. dia., bears N.13°W., 237 lks. dist..mkl.T 33 S R 9 W S 5 B.T. The course of this mile is therefore SSW 79.50 chs. Land, rough and steep. Soil, clay loam with volcanic rock on surface; and hard clay and gravel subsoil. Timber, cedar and pinon pine. Undergrowth, sage brush. Mountainous or heavily timbered land, 79.50 chs. December 7, 1910: At this cor. I set off 22°34'S., on the decl.arc; and at 11 h 51 m a.m., l.m.t., I observe the sun on

Retracement Sub.T.33 S., R.9 W.-Continued.

Chains

the meridian, the resulting lat. is $37^{\circ}58'N.$, which is the proper lat. nearly.

South, on a retracement line bet. secs. 8 and 9.

Over mountainous land; through heavy cedar and pinon pine timber.

Asc. abruptly.

6.30 Top of divide ridge between Parowan and Cedar Valleys, 150 ft. above cor., bears N. 30° E. and S. 30° W.

Desc.

14.60 Low saddle in divide ridge, 100 ft. below ridge, bears N. 15° W. and S. 30° W.

Desc.

38.25 Bottom of hollow, 500 ft. below ridge, course S. 65° E.

Asc.

39.94 Fall 3 lks.W. of the $\frac{1}{4}$ sec.cor. ber. secs. 8 and 9, which is a red sandstone, 6x10x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd. on brass cap $\frac{1}{4}$ S 8 in W half and S 9 in E half; from which

A pinon pine, 9 ins. dia., bears N. 61° W., 51 lks. dist.. mkd. $\frac{1}{4}$ S 8 B T.

No other trees within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

45.50 Top of ridge, 250 ft. above hollow, bears N. 60° W. and S. 60° E.

Desc.

74.10 Bottom of swale, 250 ft. below ridge, course E.

Leave timber, bears E. and W.

Enter dense sage brush, bears E. and W.

Asc.

79.71 Fall 7 lks.W. of the cor. of secs. 8, 9, 16, and 17, which is a

Retracement Sub.T.33 S., R.9 W.-Continued.

Chains

conglomerate stone, 20x18x12 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

I destroy the old cor. and re-establish it in the same place as follows:

Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for cor. of secs. 8, 9, 16, and 17, mkd. on brass cap

T 33 S. S. 8 in NW.

R 9 W. S. 9 in NE.

S 16 in SE. and

S 17 in SW. quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

The course of this mile is therefore S. $0^{\circ}3'$ E. 79.71 chs. Land, rough and mountainous.

Soil, sandy clay loam mixed with shale and gravel.

Subsoil, clay and hard gravel.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, land covered with dense undergrowth, 79.71 chs.

December 7, 1910.

December 8, 1910: At 8 h 52 m a.m., l.m.t., I set off $37^{\circ}57'N$ on the lat.arc; $22^{\circ}39'S.$, on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 8, 9, 16, and 17.

Thence I run

$N.89^{\circ}45'W.$, on a retracement line bet. secs. 8 and 17. Over mountainous land; through dense sage brush and scattering timber.

7

Retracement Sub.T:33 S., R.9 W.:--Continued.

- | Chains | |
|--------|---|
| | Asc. |
| 1.00 | Top of knoll, 25 ft. above cor., on ridge, bears NW and SE.
Desc. |
| 6.80 | Bottom of hollow, 200 ft. below knoll, course S.
Asc. |
| 20.00 | Top of ridge, 290 ft. above hollow, bears N. and S.
Desc. |
| 22.00 | Enter heavy timber, bears N. and S. |
| 36.90 | Bottom of hollow, 200 ft. below ridge, course SW.
Asc. |
| 40.10 | Fall 1 lk.S. of the $\frac{1}{4}$ sec.cor.betsecs.8 and 17, which is
a conglomerate stone, 6x10x6 ins., above ground, well set,
mkd. and witnessed as described by the surveyor general.
The stone is decayed and the bearing trees are decayed
or dead; therefore I destroy the old cor. and re-establish
it in the same place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the
ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 8 in N half
and S 17 in S half; from which

A cedar, 7 ins. dia., bears N.38°E., 25 lks.
dist..mkd. $\frac{1}{4}$ S 8 B T.

A cedar, 7 ins. dia., bears S.35°W., 42 lks.
dist..mkd. $\frac{1}{4}$ S 17 B T. |
| 41.20 | Top of ridge, 100 ft. above hollow, bears NE and SW.
Desc. |
| 73.50 | Bottom of hollow, 160 ft. below ridge, course S.
Asc. |
| 79.00 | Top of ridge, 30 ft. above hollow, bears N.10°E. and S.10°
W.
Desc. |
| 80.24 | Fall 2 lks.N. of the cor.of secs.7,8,17, and 18, which is
a red sandstone, 12x12x6 ins., above ground, firmly set, and
mkd.as described by the surveyor general.The bearing trees
are erroneously described and poorly mkd.therefore I destroy
the old cor. and re-establish it in the same place as follow; |

Retracement Sub .T.33 S.,R.9 W.-Continued.

Chains

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 7, 8, 17, and 18, mkd. on brass cap

T 33 S S 7 in NW.

R 9 W S 8 in NE.

S 17 in SE.; and

S 18 in SW. quadrants; from which

A cedar, 7 ins. dia., bears N.78°E., 18 lks dist.. mkd. T 33 S R 9 W S 8 B T.

A cedar, 14 ins. dia., bears S.74°E., 31 lks. dist.. mkd. T 33 S R 9 W S 17 B T.

A cedar, 8 ins. dia., bears S.42°W., 45 lks. dist.. mkd. T 33 S R 9 W S 18 B T.

A cedar, 5 ins. dia., bears N.55°W., 21 lks. dist.. mkd. T 33 S R 9 W S 7 B T.

The course of the east half of this mile is therefore N.89°44'W., 40.10 chs. the west half is N.89°48'W., 40.14 chs.

Land, rough and steep ridges and hollow, slopes southward

Soil, sandy loam about 1 ft. deep, mixed with volcanic shale

Subsoil, clay and gravel.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.24 chs.

N.89°45'W., on a retrace ment line bet. secs. 7 and 18.

Over mountainous land; through heavy cedar and pinon pine timber and dense sage brush.

Desc.

3.70 Wood road, bears E. and S.

3.85 Bottom of hollow, 60 ft. below sec. cor., course S.

Acc.

13.60 Top of ridge, 150 ft. above hollow, bears N.15°E. and S.15°W.

Retracement Sub.T.33 S., R.9 W.-Continued.

Chains

Desc.

21.50 Bottom of hollow, 60 ft. below ridge, course S.20°W.

Asc.

34.20 Top of ridge, 150 ft. above hollow, bears NE and SW.

Desc.

40.96 Fall 109 lks. S. of the $\frac{1}{4}$ sec. cor. bet. secs. 7 and 18, which is a limestone, 10x10x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

The old cor. is poorly mkd. therefore I destroy it and re-establish the cor. in the same place as follows:

Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 7 in N half and S 18 in S half; from which

A cedar, 7 ins. dia., bears N.14°E., 72 lks.

dist..mkd. $\frac{1}{2}$ S 7 B T.

A cedar, 12 ins. dia., bears S.54°E., 92 lks.

dist..mkd. $\frac{1}{2}$ S 18 B T.

62.05 Bottom of hollow, 100 ft. below ridge, course N.30°E.

Asc.

70.10 Wood road, bears N.30°W. and S.30°E.

78.78 Fall 489 lks. South of the cor. of secs. 7, 12, 13, and 18, heretofore described.

The course of the east half of this mile is therefore N.88°14'W., 40.98 chs. and the west half is N.84°W., 38.03 chs.

Land, rough and mountainous. Slopes southward. and north.

Soil, sandy loam: about 2 ft. deep, subsoil, clay.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.03 chs.

December 8, 1910: At this cor. I see off 22°41'S., on the decl. arc; and at 11 h 52 m a.m., l.m.t., I observe the sun on the

Sub.T.33 S.,R.9 W.-Continued.

Chains

meridian, the resulting lat. is $37^{\circ}57'N.$, which is the proper lat. nearly.

- From the cor.of secs.4,5,8, and 9, I run North, on a random line betsecs.4 and 5.
- Set temp. $\frac{1}{4}$ sec.cor.
- Intersect N.bdy. of Tp., 24 lks. East of the cor.of secs. 4,5,32, and 33, heretofore described.
- Thence I run S.0°10'E., on a true line betsecs.4 and 5.
- Over mountainous land; through scattering timber and dense undergrowth.
- Desc.
- Bottom of hollow, 100 ft. below sec.cor., course W.
- Asc.
- Top of ridge, 200 ft.above hollow, bears E.and W.
- Desc.
- Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 5 in W half and S 4 in E half; from which
- A cedar, 14 ins.dia., bears S.53°E., 131 lks. dist.. mkd. $\frac{1}{4}$ S 4 B T.
- A cedar, 4 ins.dia., bears N.40°W., 17 lks. dist.. mkd. $\frac{1}{4}$ S 5 B T.
- Bottom of hollow, 200 ft.below ridge, course W.
- Asc.
- Top of divide ridge between Parowan and Cedar valleys, 300 ft.above hollow, bears N.30°E.and S.
- Thence along top of ridge,
- Leave divide ridge, bears N.and S.40°E.
- Desc.
- The cor.of secs.4,5,8, and 9.
- Land, mountainous west slope.

Subdivision of T.33 S., R.9 W.-Continued.

Chains	<p>Soil, sandy loam about 18 ins. deep about half rock, subsoil gravel and hard clay.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage brush.</p> <p>Good grass for grazing.</p> <p>Mountainous or heavily timbered land, or land covered with dense undergrowth, 81.30 chs.</p>
	December 8, 1910.
	<p>December 9, 1910: At 8 h 52 m a.m., l.m.t., I set off $37^{\circ}57'$ N., on the lat.arc; $22^{\circ}45'$S., on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 7, 8, 17, and 18.</p> <p>Thence I run</p> <p>North, on a random line bet.secs. 7 and 8.</p>
40.00	Set temp. & sec.cor.
80.00	Set temp.cor.of secs. 5, 6, 7, and 8.
	Thence I run
	S. $89^{\circ}46'$ on a random line bet.secs. 5 and 8.
40.00	Set temp. & sec.cor.
80.02	Intersect N.and S.line, 14 lks.N.of the cor.of secs. 4, 5, 8, and 9.
	Thence I run
	N. $89^{\circ}40'$ W., on a true line bet.secs. 5 and 8.
	Over mountainous land; through heavy timber and dense undergrowth,
	Desc.
23.25	Foot of steep descent, 300 ft. below cor., bears N.and S. Desc, gradually.
33.30	Bottom of hollow, 75 ft. below foot of descent, course S. 60° W.
37.20	Top of ridge, 75 ft. above hollow, bears N.and S. Desc.

Subdivision of T.33.S.,R.9.W.-Continued.

Chains Sect. and 40.01	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd.on brass cap $\frac{1}{4}$ S 5 in N half and S 8 in S half; from which A cedar, 6 ins.dia., bears N.68°W., 115 lks. dist..mkd. $\frac{1}{4}$ S 5 B T. A cedar, 6 ins.dia., bears S.73°E., 144 lks. dist..mkd. $\frac{1}{4}$ S 8 B T.
44.40	Bottom of hollow, 100 ft. below ridge, course S.85°E. Asc.
55.00	Top of ridge, 80 ft. above hollow, bears N.and S. Desc.
64.70	Bottom of hollow, 60 ft. below ridge, course N.80°W. Asc.
80.02	Intersect the temp.N.and S.line, at the temp.cor. Set an iron post, 3 ft. long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.5,6,7, and 8.mkd.on brass cap T 33 S S 6 in NW. R 9 W S.5 in NE. S 8 in SE.;and S.7 in SW.quadrants;from which A cedar, 6 ins.dia., bears N.55°E., 12 lks. dist..mkd.T 33 S R 9 W S 5 B T. A cedar, 10 ins.dia., bears S.14°E., 90.lks. dist..mkd.T 33 S R 9 W S 8 B T. A cedar, 9 ins.dia., bears S.21°W., 48 lks. dist..mkd.T 33 S R 9 W S 7 B T. A cedar, 7 ins.in dia., bears N.85°W., 67 lks. dist..mkd.T 33 S R 9 W S 6 B T. Land, mountainous. Soil, sandy loam; 2 ft. deep, subsoilgravel. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered

Subdivision of T.33 S., R.9 W.-Continued.

Chains

with dense undergrowth; 80.02 chs.

South, on a true line bet. secs. 7 and 8.

Over mountainous land; through heavy cedar and pinon pine timber and dense sage brush.

Asc.

17.50 Top of ridge, 100 ft. above cor., bears E. and W.

Desc.

22.40 Bottom of hollow, 150 ft. below ridge, course W.

Asc.

24.70 Top of ridge, 100 ft. above hollow, bears E. and W.

Desc.

34.80 Bottom of hollow, 150 ft. below ridge, course S. 25°W.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 7 in W half and S 8 in E half. from which

A cedar, 12 ins. dia., bears N. 70°E., 34 lks.

dist.. mkd. $\frac{1}{4}$ S 8 B T.

A cedar, 10 ins. dia., bears S. 65°W., 16 lks.

dist.. mkd. $\frac{1}{4}$ S 7 B T.

45.20 Top of spur, 125 ft. above hollow, bears E. and W.

Desc.

63.00 Bottom of swale, 200 ft. below spur, course S. 25°W.,

Asc.

80.00 The cor. of secs. 7, 8, 17. and 18.

Land, mountainous southwest and west slope and drainage.

Soil, sandy loam about 18 ins. deep, mixed with rock and gravel. Subsoil, gravel and clay.

Timber, cedar and pinon pine.

Under growth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with

Subdivision of T.33 S., R.9 W.-Continued.

Chains	dense undergrowth, 80.00 chs. December 9, 1910: At the noon hour the sky is overcast and solar observations are impossible.
	Note: knowing from retracements made that the line bet. secs 6 and 7 will not intersect w.bdy. of tp. within limits;
	I run
	West, on a true line bet. secs. 6 and 7.
	over mountainous land; through heavy cedar and pinon pine timber and dense sage brush.
	Asc.
5.00	Top of ridge, 50 ft. above cor., bears NW and SE.
	Desc.
8.75	Bottom of hollow, 60 ft. below ridge, course NW.
	Asc.
37.00	Top of ridge, 50 ft. above hollow, bears N. and S.
	Desc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 6 in N half and S 7 in S half; from which A cedar, 6 ins. dia., bears N. 60° W., 29 lks. dist.. mkd. $\frac{1}{4}$ S 6 B T. A cedar, 8 ins. dia., bears S. 48° E., 40 lks. dist.. mkd. $\frac{1}{4}$ S 7 B T.
49.90	bottom of hollow, 200 ft. below ridge, course NW.
	Asc.
52.00	Top of spur, 50 ft. above hollow, bears N. and S.
	Desc.
55.40	Bottom of hollow, 50 ft. below spur, course NW.
	Asc.
62.50	Ledge, 70 ft. high, bears N. and S.
65.00	Wood road, bears N. and S.
69.10	Top of ridge, 100 ft. above hollow, bears NW and SE.
	Desc.

Subdivision of T.33 S., M.9 W.-Continued.

Chains

- 78.95 Intersect W.bdy.of Tp., 5,46,cha.south of the cor.of secs. 1,6,7, and 12, heretofore described.
Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for closing cor.of secs.6 and 7, mkd.on brass cap
T 33 S in N half.
C C R 10 W S 1 S 12 in W half;
R 9 W S 6 in NE.
S 7 in SE.; quadrants; from which
A pinon pine, 6 ins.dia., bears N.28°E., 48 lks.
dist..mkd.r 33 S R 9 W S 7 B T.
A pinon pine, 8 ins.dia., bears S.41°E., 61 lks.
dist..mkd.r 33 S R 9 W S 7 B T.
Note : I destroy all marks on the cor.of secs.1,6,7, and 12, which pertain to secs.6 and 7.
Land, mountainous.
Soil, sandy loam about 2 ft.deep, dry and loose; subsoil,
gravel and clay.
Timber, cedar and pinon pine.
Undergrowth, sago brush.
Good grass for grazing.
Mountainous or heavily timbered land, 78.95 elev.
-
- North...on a random line bet.secs.5 and 6.
- 40.00 Set temp. to sec.cor.
- 81.00 Intersect N.bdy.of Tp., 28 lkn.E. of the cor.of secs.5,6,31, and 32, heretofore described.
Thence I run
S.0°12'E., on a true line bet.secs.5 and 6.
Over rolling mountainous land; through heavy cedar and
pinon pine timber, and dense sago brush.
Desc.
4.25 Bottom of hollow, 25 ft.below cor., course W.
Arc.

Subdivision of T.33 S., R.9 W.-Continued.

Chains	
9.15	Top of ridge, 100 ft. above hollow, bears E. and W. Desc.
15.00	Bottom of hollow, 100 ft. below ridge, course W.
	Asc.
24.75	Top of ridge, 70 ft. above hollow, bears E. and W. Desc.
41.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 6 ins W half. and S 5 in E .half; from w which A cedar, 4 ins. dia., bears N.69°E., 24 lks. dist. mkd. $\frac{1}{4}$ S 5 B T.
	A cedar, 5 ins. dia., bears S.6°30'W., 90 lks. dist.. mkd. $\frac{1}{4}$ S 6 B T.
47.00	Bottom of hollow, 90 ft. below ridge, course W. Asc.
48.25	Wood road, bears E. and W.
63.40	Top of ridge, 150 ft. above hollow, bears E. and W. Desc.
75.30	Bottom of hollow, 150 ft. below ridge, course W. Asc.
81.00	The cor. of secs. 5, 6, 7, and 8., Land, broken ridges and hollows: Soil, sandy loam about 16 ins. deep and mixed with some rock; subsoil, hard clay. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth. 81.00 chs.

December 9, 1910.

Linby Stewart
Instrumentman G.L.O.

Subdivision of T.33 S., R.9 W. -Concluded.

General Description.

This fractional township lies along and on both sides of the divide ridge between Parowan and Cedar valleys. This divide ridge runs through the township from northeast to southwest.

The soil is generally sandy loam from 1 to 2 ft. deep, mixed with some rock in places and usually of a dry and loose texture, producing a small amount of grass and an abundant growth of cedar and pinon pine timber and sage brush. There is no water in the township and none nearer than Little Salt Lake from two to four miles away so that the land is not used for anything but winter grazing and obtaining wood for fuel by Parowan residents.

No indications of mineral were found.

The sedimentary formation is sandstone lying horizontal this formation is covered in places by a black looking volcanic rock.

Frank J. Stewart
Instrumentman G.L.O.

December 9, 1910.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**LIST OF NAMES.**

A list of the names of the individuals employed by _____

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

....., *Chairman.*

....., *Chairman.*

For list of names and final oath of assistants see book "X", *Moundman.*

T. 34 S., R. 10 W., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

....., United States Deputy Surveyor, in surveying all those parts or portions of the _____

..... of the _____

..... meridian, of which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

....., *Chairman.*

....., *Chairman.*

....., *Moundman.*

....., *Moundman.*

....., *Axman.*

....., *Axman.*

....., *Flagman.*

Subscribed and sworn to before me this _____ }

day of _____, 190 _____ }

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O SEAL O
████████

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 190_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final oath of transitman see book "Z 12" T. 31 S. R. 9 W.

of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, January 7, 1914

The foregoing field notes of the survey of _____ the subdivisional lines of Township No. 33 South, Range No. 9 West of the Salt Lake Base and Meridian, Utah

executed by _____ Quinby Stewart
under his contract No. _____, dated _____, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

James H. Kelly
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General